SAMBHRAM
INSTITUTE OF TECHNOLOGY
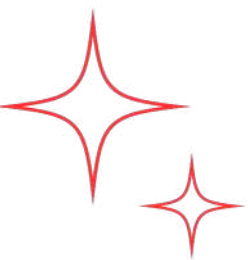
ANNUAL ELITE NEWSLETTER

Feb 24- July24

SAMBHRAM INSTITUTE OF TECHNOLOGY

>>> OUR MISSION

OUR MISSION IS TO PROVIDE WORK ORIENTED EDUCATION COMBINED WITHETHICAL VALUES, CHARACTER BUILDING IN CONTEXT OF TODAY'S MILLENNIUM.

OUR AIM IS TO TEACH STUDENTS THE ETHICAL VALUES, AND BUILD CHARACTERALONG WITH WORK ORIENTED COURSE. HENCE, WE STRIVE TO TRAVEL BEYONDTHE BOUNDARIES OF MERE BOOKS. WE HAVE REALIZED THAT THE FUTURE ISABSTRACT AND UNKNOWN BUT THE YOUTH IN OUR HANDS ARE REAL AND CANBE MOULDED.

>>> OUR VISION

THE FUTURE IS EMBODIED IN THE PRESENT GENERATION. PROFESSIONALEDUCATION COMBINED WITH PRACTICAL EXPOSURE TO CREATE VALUES IN THESTUDENTS WHO ARE THE FUTURE OF OUR NATION.

EDUCATION IS THE MOVEMENT FROM DARKNESS TO LIGHT -ALLAN BLOOM

It is my pleasure to congratulate the editorial board on this pleasant occasion of releasing the newsletter for the period August 2022 to January 2023. It is great to find a considerable number of winners and participants in co-curricular and extracurricular activities which certainly prove that our staff and students are adequately equipped and possess necessary quality skill-sets to bring such laurels to the institution. I wish that this number may grow in the years to come. I am sure that publishing a newsletter of this sort containing the achievements of the SaIT family will be a recognition to them. I wish them all the very best for future endeavor's.

Dr. V. Nagaraj
Chairman
Sambhram Group of Institutions

The newsletter which is being rolled out today marks the launch of an effervescent activity that would enable the Management to bring out to the eyes of the competitive world, the academic achievements of our prestigious institution. Sambhram Institute of Technology has grown in leaps and bounds, hurtling across barriers along the way. This has been made possible with the collaborative effort of the Management, the Staff and the Students. I congratulate everyone for their commitment.

Dr. H. G. Chandrakanth
Principal
Sambhram Institute of Technology

DEAN'S NOTE

It is a matter of great pride and satisfaction for Sambhram ITis going to release the 11th Edition of the College News Letterfrom (COLLEGE/ DEPT OF SAIT) shortly. The College hasmade tremendous progress in all areas of academic, non-academics, capacity building activities relevant to staff andstudents. The College has achieved milestone in getting NBA(National Board of Accreditation, New Delhi) and shortlygoing to get NAAC accreditation.

I am confident that this publication of (COLLEGE / Department)News Letter will send a positive signal to the staff, students and theperson's who are interested in the Technical education andTechnology based activities. Our college News Letter is like a mirrorwhich showcase the clear picture of all of activities undertaken inour COLLEGE/ Department and also develops writing skills amongstudents in particular and teaching faculty in general.

I congratulate and thank the Editorial Board of this News Letter who have played wonderful role in accomplishingthe task in Record time. I express my deep sense of gratitude to the Management of SAIT and our beloved Principal Dr. H. G. CHANDRAKANTH for their continued guidance, encouragement and support in conduction of all ourTechnical activities in the campus. Also my heartfelt Congratulations once again to all the members of the EditorialBoard, Teaching and Non-teaching staff members and Students of our college for their keen interest evinced andcompliment them for their untiring efforts in bringing out the College / Dept. news letter. With Best Wishes.

Dr. M. N. Sreerangaraju
Dean
(Academics)
Sambhram Institute of Technology

I am delighted to share the latest developments from ourresearch endeavors through the college newsletter. Ourdedicated researchers continue to push boundaries and makesignificant contributions to their respective fields, furtheringour mission of knowledge creation and innovation. Fromgroundbreaking discoveries to impactful collaborations, ourresearch community is thriving, and I look forward towitnessing the continued growth and success of our scholars.Warm regards,

Dr. K. V. Prasad
Dean(Research)
Sambhram Institute of Technology

MESSAGE FROM HOD'S

DR. T. JOHN PETER HOD, CSE

The Computer Science and Engineering department stands asa beacon of digital transformation, where students and facultycollaborate to shape the future. We're in the midst of anexciting era where technology is the driving force behindalmost every aspect of our lives. At CSE, we're committed topreparing our students to be leaders in this digital age. Weprovide them with the knowledge and skills needed tonavigate the ever-changing tech landscape and make ameaningful impact.

DR. RAVISHANKAR. C. V HOD, ECE

The Electronics and communication engineering departmentis more than just an academic unit. It's a thriving hub ofinnovation, where students and faculty collaborate on cutting-edge research, pushing the boundaries of technology. Wecontinue to prepare our students for the dynamic world ofelectrical and computer engineering, equipping them withthe knowledge and skills to solve the world's most pressingchallenges. We embrace the latest advancements, from AI andcyber security to renewable energy and IoT. I look forward tothe remarkable work that our students and faculty willcontinue to produce.

DR. LATHA. P. H HOD, ISE

The Information Science and Technology department offersengineering and industry oriented subjects where thestudents can excel in the interested domain. These diversifiedprogrammes are application-oriented and are designed toproduce competent graduates who can apply theories inpractice. Our students are set to participate in industrial andresearch projects with a strong applied nature for industrial,commercial and community needs.

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DR. MALLIKARJUN HOD, CIVIL

The Civil department's commitment to shaping the physical and societal landscape has never been stronger. We are dedicated to providing our students with the knowledge and skills needed to design, construct, and manage infrastructure t hat enhances the quality of life. In an era of environmental consciousness, sustainable design, and urban development,our Civil Engineering Department stands at the forefront of innovation. We are nurturing future engineers and leaders who understand the importance of balancing progress withenvironmental responsibility.

DR. APPAJI GOWDA. MATHEMATICS, HOD, DEPT. OF

The Basic Science Department is the cornerstone of scientific knowledge and exploration, providing a solid foundation upon which all scientific disciplines are built. In our department, we instill the fundamental principles of physics, chemistry,biology, and mathematics into the minds of our students. We believe that these principles are the keys to unlocking the mysteries of the universe and advancing humanunderstanding.

DR SANGEETHA. R HOD, CSE - CYBER SECURITY

Our students and faculty are passionate about understanding and defending against cyber threats, ensuring the confidentiality, integrity, and availability of information. In a world where data is currency and privacy is paramount, we are the sentinels who ensure the safe passage of information. We embrace the challenge of cyber security with a mix of cutting-edge technology, innovative research, and ethical responsibility.

DR. AJEETH HOD, AIML

The field of Artificial Intelligence and Machine Learning isexperiencing an incredible revolution, and our departmentstands at the forefront of this transformative journey. In our AI/MLDepartment, we embark on a quest to understand, replicate, andexpand upon human intelligence. Our students and faculty areexplorers in a world where data becomes knowledge, andmachines become learners. Artificial Intelligence and MachineLearning are no longer just buzzwords; they are integral to everyaspect of our lives.

DR. R. SEETHARAMIAH HOD, MECHANICAL

In the Mechanical Engineering Department, we fosterinnovation, curiosity, and precision. Our students and facultyare the architects of solutions that span industries, fromaerospace and automotive to energy and robotics. We are thedriving force behind the machines and systems that driveprogress. Our department is more than just classrooms andlaboratories. It's a community that thrives on collaboration andingenuity.

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CHIEF EDITOR'S NOTE

Dear Esteemed Readers,

As we embark on another exciting edition of our newsletter, I am filled withimmense pride and enthusiasm to present to you the latest developments andinsightful contributions from the field of Electrical and Computer Engineering. Ourdedicated team has worked tirelessly to curate a collection of articles, research findings,and industry updates that reflect the cutting-edge advancements in ECE. In thisedition, we delve into emerging technologies, innovative research projects, and theimpactful work of our esteemed faculty and students. It is my sincere hope that thisnewsletter serves as a valuable resource, fostering a sense of connection and sharedknowledge within our vibrant ECE community. I extend my gratitude to all contributorsand encourage our readers to engage, question, and explore the exciting possibilitiesthat lie ahead in the ever-evolving landscape of Electrical and Computer Engineering.

Best Regards,
Dr. Ravishankar. C. V
Chief Editor
The Elite
Newsletter

"Together, we achieve more."

EDITOR'S NOTE

"Welcome to the freshest instalment of our engineering college newsletter! Step into thethrilling realm of innovation and advancement, where we serve as your bridge. Oureditorial squad is wholeheartedly committed to delivering compelling narratives,remarkable accomplishments, and the latest in groundbreaking research from ourvibrant campus. We're a harmonious engine, propelling the triumph of this publication.Our pledge is to bring you the utmost in engineering brilliance. Keep an eye out, staymotivated, and remain linked with our vibrant community."

Dr. Ravishankar. C. V
Chief Coordinator
Dept. of ECE

Faculty Coordinators
Prof. Nithiya K - ECE
Prof. Saranya B- CSE
Prof. Nayana HR- Basic science
Prof. Mamatha B L- AI&DS
Dr.Sanjeetha & Prof. Ganga - Cybersecurity
Prof.Pratibha K- Civil
Prof. Chethan - Mechanical
Prof. Vikas - AIML
Prof.Pankaja &
Prof. Soumyashree - IS department
Prof. Nida - MBA

RANGA KAVYA
6th Sem Dept. of CSE

Raghavendra P
6th Sem Dept. of ISE

Rishikesh Ranjan
6th Sem Dept. of ISE

Shrisha.D.P
4th Sem Dept. of CSE

Swathi.Y
4th Sem Dept. of CSE

Suhani.S
4th Sem Dept. of CSE

ACKNOWLEDGEMENT

"

The price of success is hard work, dedication to the job at hand,and the determination that whether we win or lose, we haveapplied the best of ourselves to the task at hand."

It gives us immense pleasure to release the 11th edition of theCollege Newsletter "The ELITE NEWSLETTER".

We would like to express our deep gratitude to Dr. V. Nagaraj, TheHonourable Chairman, The Dean Academics & The Dean Research,Dr. H. G. Chandrakanth, The Principal, Sambhram Institute ofTechnology, in bringing out this magazine.

We take pride in acknowledging the insightful guidance of Dr. Ravishankar. C. V, Head of the Department, ECE in making ofthe magazine. Of the many people who have been enormouslyhelpful in the production of the magazine, we are very grateful tothe forum coordinators Prof. Mallamma and Prof. Nithiya andstudents of Electronics & Communication Engineering andComputer Science & Engineering.

We would like to offer our special thanks to the faculty of CSE andECE. Their support, encouragement and credible ideas have beengreat contribution in the successful completion of this magazine.

PREFACE

The Sambhram Institute of Technology was established by a team of experts who are a perfect blend of industry and academia. The founders of this Institution and others, who are associated with us, are eminent educationists,distinguished personalities and philanthropic minded persons who have laid a solid foundation and are nurturing it to grow phenomenally. With commendable dedication, determination, optimistic and indomitable courage,the managing committee members have pledged to shape the institution to agigantic position in the near future. It was Established in 2001 with fourengineering branches namely Computer Science, Electronics &Communication, Information Science & Mechanical, today SalT offers 5 Under Graduate Engineering programmes, 2 Master Degree programmes and 5Doctoral programmes and rated among top EngineeringInstitutions in the Bangalore. Current annual student intake for Undergraduate Programmes &Post Graduate Programmes in Engineering is around 1200. SalT aims at an integral training of students forming them into genuine persons with relevant skills, values and attributes in such a way that they are enabled to develop a career sensitive to the challenging world of technological advancement and tolive for the prosperity of every human being. We cultivate the basic qualities among students to build up a strong character and imbibe a sense of moral,ethical and spiritual values. Towards this end, we are imparting an integral training to transform students to genuine citizens for the prosperity of every man and woman in our country. The Sambhram Institute of Technology is committed to create quality professionals to meet the emerging industrial and social needs through innovative teaching applied research, Industrial Interaction, Placing faith in human values and aiming at continualimprovement in all activities. We strive to provide the quality education thatmeets the need and aspirations of the students, employers and society. Theinstitute aims to respond to all of these groups by providing curriculum andsupport which is necessary to enable the progression and to allow individuals togrow, develop and become universally accepted technocrat.

Department of Basic Science

DEPARTMENT OF PHYISICS:

Dr.Jagadeesh Gowda G V
Prof. & Head,
Department of Physics

The Physics department at our institution is dedicated to providing a comprehensive education in the fundamental principles of physics to our Engineering students. Our experienced faculty members employ innovative teaching-learning methods, including experiments, simulations, and real-world applications, to foster a deeper understanding of complex concepts.

Research activities are thriving in the department, with faculty collaborating on projects in cutting-edge areas like materials science, and condensed matter physics. Our state-of-the-art laboratories provide hands-on experience, enabling students to explore and experiment with various phenomena.

The department's commitment to academic excellence and innovation is evident in its consistent achievements. The department's focus on interdisciplinary research and collaboration has also led to publications in reputable International Journals.

DEPARTMENT OF MATHEMATICS:

Mathematics is a tool for all Engineering branches.

I have a dedicated team in my department that strives hard to uplift the image of the department in particular and institution at large. Ours is the only department that excels percentage of passes. The department of mathematics aims at improving and building a firm foundation with all branches of engineering.

I congratulate my team I look forward to do better. Mathematics is a queen of all sciences.

The Department of Mathematics has well qualified, experienced and dedicated faculty members.

Our focus is to produce committed and passionate engineers equipped with modern mathematical tools with strong understanding towards real world and engineering problems.

DR.APPAJIGOWDA.C
PROF & HOD,
DEPT. OF MATHEMATICS

DEPARTMENT OF CHEMISTRY:

Dr. Madhu Rai
HOD,
Department of Chemistry

The Department of Chemistry at Sambhram Institute of Technology has been started functioning in the year 2001 and dedicated to the instruction, training and intellectual growth of undergraduates in all the fields of engineering aspects and graduates to carry out basic and applied research. The Department consists of five well qualified and experienced faculty members with PhD's and two non-teaching staff. The Department mainly focuses on the activity of teaching and learning of engineering chemistry and its laboratory courses to the under graduates of all disciplines

Dr. M. T. Swamy, from Department of Chemistry:

Dr. M.T. Swamy, a dedicated educator and accomplished researcher, holds a Ph.D. in Inorganic Chemistry from the University of Mysuru. His extensive academic journey has seen him in various leadership roles, currently serving as the Controller of Examinations (CoE) and Associate Professor at Sambhram Institute of Technology in Bengaluru.

DEPARTMENT OF BASIC SCIENCE

MRS. SHANTHALA PATIL
Department of Basic Sciences

The Kannada & Indian Constitution Department at Sambhram Institute of Technology is a cornerstone of cultural and legal education. Professors here are not only adopt in imparting linguistic proficiency but also in instilling deep understanding of India's constitutional framework.

Students benefit from a diverse curriculum that covers both linguistic and legal intricacies.

Through this department, we aim to produce graduates who are not only proficient in Kannada but also well-versed in the fundamental principles of Indian law and governance.

DEPARTMENT OF BASIC SCIENCE

Language is our major means of communication; it is how we share our thoughts with others. English has been regarded as the first global Lingua Franca. It has become part and parcel of almost every existing field. We use it as the international language to communicate in many fields ranging from business to entertainment.

Many countries teach and encourage youngsters to acquire English as a second language. Even in nations where English is not an official language, many science and engineering curriculum are written in English. The English Language opens an ocean of career opportunities to those who speak this language anywhere in the world.

In the fast-evolving world, it is essential to have a common language that we can understand to make the best use of the data and information available. As a result, the English Language has become a storehouse of various knowledge ranging from social to political fields.

Mrs. Swarna Rubena
Department of Basic Sciences

FACULTIES RESEARCH INSIGHTS FOR PHD'S

Asha A L , From Dept. Of Mathematics

PhD pursuing from REVA University.

Heat and mass transfer analysis inthe presence of a Maxwell nanofluid and a magnetic field apparently have been the subject of independent studies by a few researchers. In the course of my study,I am going to investigate the influence of a magnetic field on a Maxwell nanofluid moving through many different kinds of geometries and boundary conditions that are suitable to convection.

Dr. Bhavana, From Dept. Of Physics

Completed Ph.D and their publications.

Ph.D from Maharani science college for Women affiliated to Bangalore University

- Research in the field of Material characterization, Material synthesis, Multiferroics, Magnetoelectric composites, Film deposition

List of Publications

- Structural and Dielectric Properties of $y(Cu(1-x)Co_xFe_2O_4)+(1-y)PbZr0.58Ti0.42O3$ Composites Bhavana H.V. and S.S. Bellad AIP Conference Proceedings, 2220 (2020) 020037

- Copper cobalt ferrite: Lead zirconium titanate layered thick Film Composites by screen printing method and Magnetoelectric properties Bhavana H.V., Shaik Sabira Begum, A.R. Vijayalakshmi and S.S. Bellad PRAMANA -Journal of physics, 95 (2021) 204

  - Study of dielectric and magnetoelectric properties of $Cu0.8Co0.2Fe_2O_4:PbZr0.58Ti0.42O3$ particulate and laminated film composites Bhavana H.V., Shaik Sabira Begum and S.S. Bellad Journal of electrochemical society of India 70 (2021)1-7

  - Magnetoelectric properties of $y(Cu(1-x)Co_xFe_2O_4)+(1-y)PbZr0.58Ti0.42O3$ bulk Composites Bhavana H.V., Shaik Sabira Begum and S.S. Bellad Journal of education: Rabindra Bharati university, 24 (2022)14-19

•Synthesis and characterization of ferrite-ferroelectric nanocomposite thick films Shaik Sabira Begum, Bhavana H.V. and S.S. Bellad Applied Physics A 128 (2022) DOI:10.1007/s00339-022-05649-z

• Dielectric and magnetoelectric behavior of $Ni_xCu_{1-x}Fe_2O_4-PbZr_{0.52}Ti_{0.48}O_3$ laminated multilayered nanocomposites Shaik Sabira Begum, Bhavana H.V. and S.S. Bellad Indian
Journal of Physics 97(2022) 1-6. DOI:10.1007/s12648-022-02364-6

•Electrical and magnetoelectric properties of particulate composites and laminated Trilayered thick film composites Bhavana H.V., Shaik Sabira Begum and S.S. BelladPhysica status solidi (a) – applications and materials science 220(2022) DOI:10.1002/pssa.202200457

•. Dielectric Properties of $Cu_{(1-x)}Co_xFe_2O_4$:$PbZr_{0.58}Ti_{0.42}O_3$ layered thick film composites Bhavana H.V., Shaik Sabira Begum, S.S. Bellad AIP Conference Proceedings (In Press-2023)

• Dielectric, magnetic and magnetoelectric properties of laminated thick films of coppercobalt ferrite and lead zirconium titanate Bhavana H.V. and S.S. Bellad AIP Conference Proceedings (In Press-2023)

FDP'S & CONFERENCES ATTENDED BY FACULTIES FROM MATHEMATICS DEPT:

Dr. Appaji Gowda C:
- Participated in the online seminar of Case based Mathematical Modelling with Differential equations.

Venkatesh MG:
- Participated in the online seminar of Case based Mathematical Modelling with Differential equations.

Roselin Mary:
- Participated in the online seminar of Case based Mathematical Modelling with Differential equations.
- Guest lecture on QSPR analysis of medicinal drugs and involving topological indices
- Certificate of energy literacy

Nayana HR:
- Participated in the online seminar of Case based Mathematical Modelling with Differential equations.
- Guest lecture on QSPR analysis of medicinal drugs and involving topological indices
- Certificate of energy literacy

Asha AL:
- Participated in the online seminar of Case based Mathematical Modelling with Differential equations.
- 5 days National virtual FDP on Integrating NEP 2020 on Higher education strategies for faculty development and curriculkum innovation on 2-9-2024 to 6-9-24 by Hindusthan college of Arts and Science.
- Webinar on Computational Fluid Dynamics using COMSO/ Multiphysics software.

Dharani B Shetty:
- Participated in the online seminar of Case based Mathematical Modelling with Differential equations.
- Guest lecture on QSPR analysis of medicinal drugs and involving topological indices
- Certificate of energy literacy

H Aravind, From Dept. Of Physics

PhD pursuing from University of Sedona, Arizona, USA.

Topic :Metaphysics

Kalavathi N:
- Participated in the online seminar of Case based Mathematical Modelling with Differential equations.
- Guest lecture on QSPR analysis of medicinal drugs and involving topological indices
- Certificate of energy literacy.

Sushmitha B:
- Participated in the online seminar of Case based Mathematical Modelling with Differential equations.
- Guest lecture on QSPR analysis of medicinal drugs and involving topological indices
- Certificate of energy literacy.

Ram Tulsi M:
- Participated in the online seminar of Case based Mathematical Modelling with Differential equations.
- Guest lecture on QSPR analysis of medicinal drugs and involving topological indices
- Certificate of energy literacy.

Dr. Bhavana H. V:
- 5 days FDP on Research trends in optical communication and biophotonics (RT0CB-2024)
- Participated in 5days FDP on "Advanced physics in Engineering" organized by Sanjeevan engineering and technology institute, Panhala from March 11th to 15th 2024 .

EVENTS CONDUCTED FROM THE DEPARTMENT:
NATIONAL SCIENCE DAY

1.INVITATION COPY OF THE EVENT

•BRIEF PROFILE OF THE RESOURCE PERSON

Dr. Kavitha (senior scientist CMTI Chemical laboratory, Bengaluru)

Dr. Kavitha is currently the Group Head and Scientist for the Materials and Metallurgy Group in **Central Manufacturing Technology Institute**, Bengaluru.

Dr. Kavitha has a Ph.D. in Material Science from the Anna University, Chennai.

projects undertaken by Dr. Kavitha

- •She has been the Principal Investigator on various projects which were funded by DST, New Delhi.
- •She has also been a team member on projects sponsored by DRDO, New Delhi and DAE, Mumbai and another project funded by the Ministry of Commerce and Industry New Delhi.
- •Currently she is a Project Lead Scientist on a project funded by the Ministry of Heavy Industries and Public Enterprises, New Delhi.

Awards and Merits

- •Dr Kavitha has been awarded **The Institution Prize** in 2017 by the **Institution of Engineers**.
- •She is a recipient of **Prof G S Tendulkar Award** of Powder Metallurgy Association of India.
- •In addition to that, she has also been awarded the **CSIR Research Associateship.**

Patent

Dr Kavitha has a patent on "**An improved sol gel process for coating ceramic reinforcements with rare earth oxides**."

Dr. Kavitha has Life Memberships of various Professional Societies, such as

- Powder Metallurgy Association of India.
- Materials Research Society of India.
- Indian Institute of Metals.
- Indian Ceramic Society.
- Academic Staff College of India.

4.BRIEF REPORT ON THE PROGRAM

In order to commemorate the discovery of the Raman effect in India by the Indian physicist, Sir Chandrashekhara Venkata Raman in the year 1930, the day is celebrated as National Science Day. For his great success in the field of science in India, Chandrashekhara VenkataRaman had been awarded and honoured with the Nobel Prize in the Physics in the year of 1930. To honor this event, 28th of February is observed as a National Science Day in India by the National Council for Science and Technology Communication (NCSTC). A particular theme is selected for every year National Science Day Celebration. The theme of this year was*"Indigenous Technology for Viksit Bharat."*
National Science Day was celebrated by **Basic science department,** in SambhramInstitute of Technology at Seminar Hall (behind library) on 28thFebruary 2024. The session was opened by Invocation Song followed by welcome address byDr Madhu Kumari, Associate professor & HOD, Department of Chemistry,Followed by Lighting the Lamp by the Dignitaries, In her welcome address she briefed the gathering about the objectives of celebrating National Science Day.

On this occasion**Dr.K. V. Prasad, Dean-Research, SaIT, Bengaluru**. discussed how the contribution of Science and Technology has revolutionized our day-to-day activities and made our life much easier. During his keynote address laid emphasis on contribution of Indian scientists and world-renownedScientists to the world of science and technology for a future sustainability in the field of science and technology, He also stressed on the importance of discovery made by Sir Chandrasekhara Venkata Raman which we know as Raman Effect and its application in many scientific instruments and clinical diagnosis.

Furthermore, Dr JagadeeshGowda Associate Professor & HOD, Department of Physics, given Introduction to Chief Guest, **Dr. Kavitha, (Senior Scientist, CMTI Chemical laboratory, Bengaluru),**a motivational and inspirational talk was delivered by the Chief Guest, duringher address threw light on the Advance Materials in the field of Science and Technology and Applications of Nano Materials. She also addressed howscientists create conductive environment for the betterment of human life for future generation through science and technology. She explained how a creative thinking and observation can lead to win a scientific outlook. She expressed her views on how we should never fear to follow our dreams and never stop questioning. Furthermore, she strongly recommended the students of Sambhram Institute of technology to remain curious and become good observers of daily natural and scientific phenomenon.

Dr. Appaji Gowda, Associate professor & HOD, Department of Mathematicspresented formal vote of thanks. Then session was closed.

PHOTOS OF THE EVENT

Science day 2024, Inauguration function

Resource Person lecturer: Dr. Kavitha(Senior Scientist, CMTI Chemical laboratory, Bengaluru)

Science day 2024 – Audience

Group photo with chief guest - Basic Science Department Faculty Members

Envision Day

Event: Student's Project Exhibition/ Demo Day using Innovation & Design Thinking
Date: 24th April 2024
Time: 10AM to 1PM

SAMBHRAM
INSTITUTE OF TECHNOLOGY

DEPARTMENT OF PHYSICS, CHEMISTRY & MATHEMATICS

In Association with IIC

You are cordially invited to

"ENVISION DAY"

24th April 2024

Guest

Prakash Urus
Senior product developer In-Unity LLP

Hemanth Rao
Associate Product Developer In-Unity LLP

Dr.Eranyakula Sahith
Entrepreneur, Physiotherapist

CHIEF PATRONS

| Smt. Dhanya Nagaraj | Sri. B.N. Nagaraj | Dr. V. Nagaraj |
| Director | SGI(IPS-Retd.) | CEO-SGI Chairman, SGI |

PATRONS

| Dr. M. N. Shree Rangaraju | Dr. K. V. Prasad | Dr. H. G. Chandrakanth |
| Dean-Academics | SaIT Dean- Research | SaIT-Principal |

INVITED BY

| Dr. Swamy MT | Dr. Madhu Kumari | Dr. Jagadeesh Gowda G.V. | Dr. Appaji Gowda |
| COE, SaIT | HOD, Dept of Chemistry | HOD, Dept of Physics | HOD, Dept of Mathematics |

Venue: R Venkatesh Auditorium   **Timings:** 10:00 am – 01:00 pm

Guests: Mr. Prakash Urus, Senior Product Developer, In-Unity LLP,
Mr. Hemanth Rao, Associate Product Developer, In-Unity LLP.
Dr. Eranyakula Sahith, Enterpreneur, Physiotherapist.
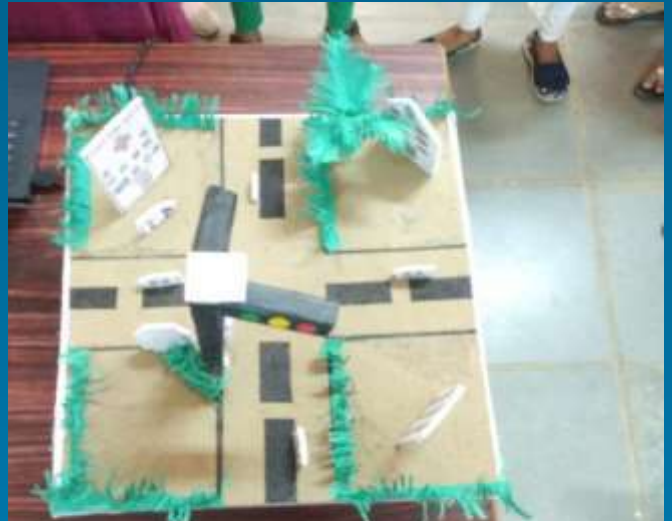
Projects Made by Students using Innovative Ideas.

GPS Map Camera
Bengaluru, Karnataka, India
3GQW+X96, Vidyaranyapura, Bengaluru, Karnataka 560097, India
Lat 13.089867°
Long 77.54606°
24/04/24 01:40 PM GMT +05:30

GPS Map Camera
Bengaluru, Karnataka, India
3GQW+X96, Vidyaranyapura, Bengaluru, Karnataka 560097, India
Lat 13.08991°
Long 77.546036°
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GPS Map Camera
Bengaluru, Karnataka, India
3GQW+Q9F, Lakshmipura Cross, M.S. Palya Rd, Jalahali East, Bengaluru, Karnataka 560097, India
Lat 13.089552°
Long 77.546103°
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GPS Map Camera
Bengaluru, Karnataka, India
3GQW+X96, Vidyaranyapura, Bengaluru, Karnataka 560097, India
Lat 13.08991°
Long 77.546036°
24/04/24 02:37 PM GMT +05:30

Students demonstrating the working of their project to the Guests for evaluation:

STUDENT INDUCTION PROGRAMME (SIP) -2023-2024

Sambhram Institute of Technology, M S Palya, Via Jalahalli East, Bangalore hosted 10 days induction program for the first year B.E.degree students of eight branches(CSE/ISE/ECE/AI-ML/AI-DS/CY/CV/ME)from 06th March 2024 to 15th March 2024.

INTRODUCTION

The Sambhram Institute of Technology is dedicated to developing quality professionals to meet emerging industrial and social needs through innovative teaching, applied research, industrial interaction, faith in human values, and the pursuit of continuous improvement in all activities. We strive to provide high-quality education that meets the needs and aspirations of students, employers, and society as a whole. The institute aims to respond to all of these groups by providing the curriculum and support required for progression and allowing individuals to grow, develop, and become universally accepted technocrats.

SaIT aims to form students into genuine people with relevant skills, values, and attributes, enabling them to develop a career sensitive to the challenging world of technological advancement and to live for the prosperity of all human beings. We instil in students the fundamental qualities that will help them develop a strong character and a sense of moral, ethical, and spiritual values. To that end, we are providing comprehensive training to students in order to transform them into true citizens who will contribute to the prosperity of every man and woman in our country.

OBJECTIVES OF THE PROGRAM:

The Objective of the program were to help the students adjust to their new surroundings, to help them open up, to help them establish a healthy daily routine, to help them form bonds with their fellow classmates and with the faculty and to help them develop awareness, sensitivity and understanding of themselves, the people around them, society at large and nature. The induction programme aids in establishing a sense of comfort among first-year students while also providing opportunities for them to express their interests and talents and develop their character. An induction programme is a sign of various on-campus and off-campus activities created especially for new students to fill the gap. The Induction Program is a lovely fusion of literary activities, cultural activities, personality development activities, Universal Human Values sessions, sports, and many other things.

INDUCTION PROGRAMMME SCHEDULE:

Sl. No.	Date	10am-11am	11am-12 pm	12pm-1.00pm		2pm-3pm	3 pm-4pm
1	06/03/2024 Wednesday	Inaguration	Rules and regulations of college ,VTU by Dr. M T Swamy			Cultural/Sports activities	
2	07/03/2024 Thursday	Importance of physics in Engineering by Dr.Jagadeesh Gowda G V	Indigenous Technologies for Viksit Bharat by Dr.Madhu Kumari	Heartfullness Program		Sports/Cultural activities	
3	09/03/2024 Saturday	Meditation	Motivational talk by Dr.John Peter				
4	11/03/2024 Monday	Innovation and design thinking (comedkares)				Universal Human values -1	NSS by CS
5	12/03/2024 Tuesday	Personality development Programmes by placement	Motivational talk by Dr.Ravishankar			Competations (Mehendi,,Rangoli)	
6	13/03/2024 Wednesday	Motivational talk by Dr.Appaji Gowda	Awareness of yoga by Brahmakumari Kavitha			Universal Human values -2	
7	14/03/2024 Thursday	Awareness of cyber security by Dr.Sanjeetha	Skill development programme by Prof Swarna Ruben			Cultural activities	

8	15/03/2024 Friday	Advanced physics in Engineering by Dr.Bhavana H V	Awareness on Drug Abuse and illicit drug trafficking		sports

Awareness on Drug Abuse
1.INVITATION COPY FOR THE EVENT

On 28 th June 2024, The Sambhram institute of technology hosted an event to observe the International day against drug abuse and illicit trafficking. The event aimed to raise awareness about detrimental effects of drug abuse and importance of combating illicit trafficking.

The event commenced with a welcome address by the Dr. Bhavana H V, Coordinator of Institution drug awareness club .Mr.Hanumanth PSI, Mr.Harish PSI, Mr.Chandrashekhar PSI from Vidyaranyapura police station are the esteemed guest of honor. Mr.Hanumanth PSI shared the insights into current scenario of drug abuse and trafficking in the region, emphasizing the efforts of the police force in curbing these activities. Another guest, Mr Harish PSI spoke about cyber security issues .He highlighted the importance of cyber security awareness, the common types of cyber threats and measures individuals and institutions can take to protect themselves..

The event was a resounding success with active participation from students, faculty and police department. Lastly the event was concluded with vote of thanks.

Bengaluru, Karnataka, India
3GQW+X96, Vidyaranyapura, Bengaluru, Karnataka 560097, India
Lat 13.09° Long 77.546006°
28/06/24 10:44 AM GMT +05:30

Bengaluru, Karnataka, India
3GQW+X96, Vidyaranyapura, Bengaluru, Karnataka 560097, India
Lat 13.089988°
Long 77.545915°
28/06/24 11:34 AM GMT +05:30

Bengaluru, Karnataka, India
3GQW+X96, Adityanagar, Vidyaranyapura, Bengaluru, Karnataka 560097, India
Lat 13.090135°
Long 77.546015°
28/06/24 11:36 AM GMT +05:30

Ramagondanahalli, Karnataka, India
4HC2+CW7, Ramagondanahalli, Bengaluru, Karnataka 560064, India
Lat 13.119943°
Long 77.551997°
28/06/24 11:32 AM GMT +05:30

Bengaluru, Karnataka, India
1, Dnk Rd, Best County 2, Adityanagar, Vidyaranyapura, Bengaluru, Karnataka
560097, India
Lat 13.089434°
Long 77.546218°
28/06/24 11:32 AM GMT +05:30

Bengaluru, Karnataka, India
1, Dnk Rd, Best County 2, Adityanagar, Vidyaranyapura, Bengaluru, Karnataka
560097, India
Lat 13.089437°
Long 77.546228°
28/06/24 11:56 AM GMT +05:30

Vinay Raj
1ST24IS014

ನೆನಪೆ ನೆನಪಾಗಿ ಉಳಿಯದಿರು,ಮತ್ತೆ ಮತ್ತೆ ಬಂದು ನೀ ಕಾಡಿದರು......

ಕಡಿಯಬೇಡ ನೀ ನನ್ನ ನಿದಿರೆಯ,ಮರೆಸಬೇಡ ನನ್ನ ಹಸಿವೆಯ.......

ಹೋಗು ನೆನಪೇ ನೀ ದೂರ, ಬರಿದಾದ ಮನಕೆ ಮತ್ತೆ ನೀನಾದೆ ಭಾರ.....

ಅಳುತ್ತಿರುವ ಮನಕೆ ಸವಿ ನೆನಪುಗಳು ಏಕೆ.....

ನೆನೆದು ನೆನೆದು ಅಳುತ್ತಲೇ ಇರುವ ಪರಿಸ್ಥಿತಿ ಬೇಕೆ....

ಬೇಡವೆಂದು ತಳ್ಳಿದರು ದೂರ, ಮತ್ತೇಕೆ ಕಾಲ್ಗಸಲ್ಲದ ನೆಪವೊಡ್ಡಿ ಬರುವೆ ನೀ ಹತ್ತಿರ.....

ಎಲ್ಲ ಮರೆತು ನೆಮ್ಮದಿಯ ಹುಡುಕಲು ಹೊರಟರೆ ಮತ್ತೆ ಕರೆತಂದು ಕಣ್ಣೇರಿಡಿಸುತ್ತಿರುವೆ

ನೀ ನೆನಪೇ..............

ಗುಂಪು ಗದ್ದಲದಲ್ಲೂ ಒಂಟಿ ಅನಿಸುವಂತೆ ಮಾಡುವ ನೆನಪೇ....

ನಗುವಾಗ ಒಮ್ಮೆಲೆ ಕಣ್ಣಂಚನ್ನು ತೀವ ಗೂಡಿಸುವ,

ಅಳುವಾಗ ನಗು ಮೂಡಿಸುವ,ಮಾತಿನಲಿ ಮೌನ ತಾಳುವಂತೆ......

ಮೌನದಲಿ ಮಾತಾಡುವಂತೆ ಮಾಡುವ,,

ನೆನಪುಗಳೆಂಬ ಅಲೆಗಳಲ್ಲಿ,ಬದುಕಿನ ನೌಕೆ ಚಿರವಾಗಿ ಸಾಗಲಿ...................

ನಯನ ಹೆಚ್ ಆರ್
ಸಹಾಯಕ ಉಪನ್ಯಾಸಕರು
ಗಣಿತ ವಿಭಾಗ

SAMBHRAM
INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
FEBRURY 2024 – JULY 2024

The Department of Computer Science and Engineering (CSE) has evolved dynamically, aligning its academic programs with rapid technological advancements. By offering a rigorous and forward-thinking curriculum, the department ensures that students gain a deep understanding of information theory, algorithmic problem-solving, and computational paradigms, empowering them to develop innovative solutions to complex real-world challenges.
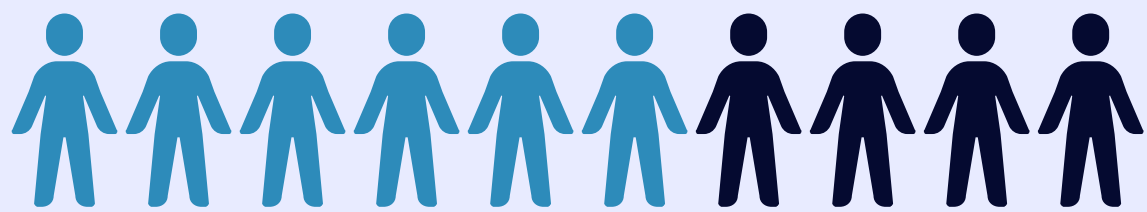
INTERDISCIPLINARY EXPLORATION IN COMPUTER SCIENCE

Beyond traditional programming and software development, the CSE program fosters interdisciplinary exploration, encouraging students to integrate concepts from artificial intelligence, machine learning, cybersecurity, and data science. This holistic approach not only enriches their technical expertise but also nurtures creativity, adaptability, and critical thinking—key attributes for success in the ever-evolving digital landscape.

EXPERIENTIAL LEARNING AND PRACTICAL EXPOSURE

Experiential learning is at the core of the curriculum, with hands-on projects, industry internships, and research opportunities seamlessly integrated into the academic framework. These practical experiences bridge the gap between theory and application, equipping students with the problem-solving and collaborative skills essential for thriving in professional environments. Moreover, the department emphasizes teamwork, communication, and leadership development, preparing graduates to excel in both technical and managerial roles.

The CSE department is a hub of innovation and research, providing students and faculty with opportunities to work on cutting-edge projects, collaborate with industry leaders, and contribute to technological advancements. Leveraging modern laboratories, state-of-the-art infrastructure, and strategic partnerships, the department exposes students to emerging trends and industry best practices, ensuring they are well-prepared to lead in the digital revolution.

EXPANSIVE CAREER OPPORTUNITIES IN COMPUTER SCIENCE

With the demand for skilled computer science professionals surging across diverse industry including major tech firms, startups, government sectors, and research institutiongraduates enjoy a vast spectrum of career opportunities. From software engineering and cybersecurity to robotics and data analytics, the interdisciplinary nature of the field allows them to forge dynamic and impactful career paths.

SHAPING THE FUTURE THROUGH TECHNOLOGY

As drivers of technological progress, CSE graduates play a pivotal role in shaping the future of innovation, addressing global challenges through technology-driven solutions, and contributing to societal transformation. The department remains dedicated to nurturing the next generation of technologists, entrepreneurs, and thought leaders, equipping them with the knowledge, skills, and vision to push the boundaries of what is possible in the digital age.

By fostering an environment of excellence, research, and industry collaboration, the Department of Computer Science and Engineering continues to empower students to become catalysts of change, ensuring they remain at the forefront of the rapidly evolving technological landscape. Through its commitment to interdisciplinary learning and practical application, the department is instrumental in shaping the future of technology and society.
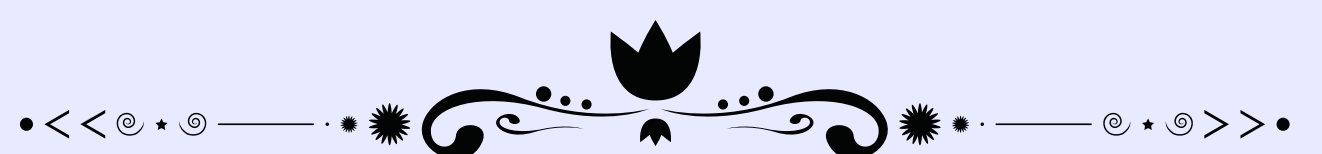
PAPERS/ PATENTS PUBLISHED OR PRESENTED BY FACULTIES/STUDENTS

1

DR. T. JOHN PETER

Dr. T. John Peter presented a paper titled "Virtual Scribe for Visually Impaired Learners Through Interactive Speech-Based Application" at the International Conference on Human-Centric Smart Computing. The paper was published by Springer.

2

PROF. SUNITA B

Prof. Sunita B. published a paper titled "Pest Detection and Classification in Peanut Crops Using CNN, MFO, and EVITA Algorithms" in the International Journal of Progressive Research in Engineering Management and Science (IJPREMS), Vol. 04, Issue 04, April 2024, pp. 2582-2590 (e-ISSN: 2583-1062).

3

PROF. SUNITA B.

Prof. Sunita B. co-authored a paper titled "Multilingual Document Data Preprocessing and Machine Translation Employing Neural Machine Translation Models" with Dr. John Peter T., published in Tuijin Jishu/Journal of Propulsion Technology, Vol. 45, No. 3 (2024), ISSN: 1001-4055.

4

PROF. DEEPA S BHAT

Prof. Deepa S Bhat. published a paper titled "Smart voice assistive using BCI technology" in the International Journal of Progressive Research in Engineering Management and Science (IJPREMS), Vol. 04, Issue 05, May 2024, paper id 40500044817 (e-ISSN: 2583-1062).

5

PROF. DEEPA S BHAT

Prof. Deepa S Bhat. published a paper titled "Brain tumor detection using machine learning" in the International Journal of Progressive Research in Engineering Management and Science (IJPREMS), Vol. 03, Issue 05, May 2023, paper id 30500031222 (e-ISSN: 2583-1062).

6

PROF. DEEPA S BHAT

Prof. Deepa S Bhat. published a paper titled "Automated HTML code generation from hand drawn images using machine learning methods" in the International Journal of Progressive Research in Engineering Management and Science (IJPREMS), Vol. 03, Issue 05, May 2023, paper id 30500010092 (e-ISSN: 2583-1062).

PAPERS/ PATENTS PUBLISHED OR PRESENTED BY FACULTIES/STUDENTS

7

PROF. JYOTHI S. S

Prof. Jyothi S. S presented a paper titled "A Model for Predicting Demand & Supply Information of Top Crop", published in TIJER on 05-05-2023.

8

PROF. JYOTHI S. S

Prof. Jyothi S. S presented a paper titled "Detection of Cardiovascular Diseases Using Artificial Intelligence", published in iJETRM on 27-05-2024.

9

DR. ASHA S R

Dr. Asha S R .Published a paper entitled "Data hiding using steganography tools" in international journal of progressive research in engineering management and science (IJPREMS),Vol.04,Issue 04,April 2024, e-ISSN : 2583-1062, Impact factor: 5.725.

10

DR. ASHA S R

Dr.Asha S R, Published a paper entitled "Crop Price Prediction using Machine Learning " in international journal of progressive research in engineering management and science, Vol.06,Issue 04, April 2024,e-ISSN:2582-5208.

11

DR. ASHA S R

Dr. Asha S R, published a paper entitled " Advancement in Artificial Vision : A pathway to Empowering the visually impaired with Artificial Eyes" in international journal of progressive research in engineering management and science, vol,4 Issue 05,may 2024,e-ISSN : 2583-1062.

12

DR. HANUMANTHA RAO K

Dr. Hanumantha Rao K published a paper entitled "Footstep Power Generation" in International Journal of Recent Advances in Multidisciplinary Topics, Vol. 5, Issue 5, May 2024, e-ISSN: 2582-7839, Impact Factor: 5.086.

FACULTIES EVENT'S ORGANIZED / PIONEERED / PARTCIPATION HIGHLIGHTS

FACULTIES EVENT'S ORGANIZED / PIONEERED / PARTCIPATION HIGHLIGHTS

1. Dr. K. Balakrishnan served as the coordinator for the "Spiritual Book Exhibition" conducted on 1st and 2nd February 2024 at SaIT premises in collaboration with ISKCON Rajajinagar.

2. Dr. K. Balakrishnan, Prof. V. Anuradha, Prof. Giridhar Rao, Prof. Jyothi S. S., Prof. Suchitra Devi A., Prof. Hanumantha Rao K. R., Prof. Deepa S. Bhat, and Prof. Anuradha U participated in a 5-day FDP on Business Analytics organized by AISSMS College of Engineering, SJCIT, and Matrusri Engineering College in collaboration with ExcelR EdTech Pvt. Ltd. from 05/02/2024 to 09/02/2024.

3. Dr.Balakrishnan from the CSE department coordinated the awareness program on the NRI Forum Karnataka on 22nd March 2024, focusing on promoting the welfare of Kannadigas abroad and encouraging NRI involvement in the state's development.

4. Prof. Yashaswi R. participated in a 5-day FDP on Deep Learning and Artificial Intelligence organized by ExcelR EdTech Pvt. Ltd. from 26/02/2024 to 01/03/2024.

5. Dr. K.Balakrishnan and Prof. Mallamma C. G. coordinated a 2-week Student Exchange Program from 02/03/2024 to 18/03/2024, organized in collaboration with Sambhram University, Jizzakh, Uzbekistan, with 17 participants.

1.Dr. K. Balakrishnan also coordinated the NSS activity titled "Awareness Program on NRI Forum, Karnataka" organized on 22nd, 23rd, and 25th March 2024.

2.Prof. Hanumantha Rao K. R. served as a reviewer in the 2nd International Conference on Disruptive Technologies organized by G L Bajaj Institute of Technology and Management, Noida, on 16/03/2024.

3.Dr. K. Balakrishnan, Dr. Asha S. R.,., Prof. Sunita B., Prof. Giridhar Rao M., Prof. Anuradha V., Prof. Anuradha U., and Prof. Suchitra Devi A. participated in a 5-day FDP on Data Analytics using Power BI and

Tableau, organized by Parul University (Gujarat), Atria Institute of Technology (Karnataka), and Amity Pune (Maharashtra) in collaboration with ExcelR EdTech Pvt. Ltd. from 11/03/2024 to 15/03/2024.

9.Dr. Asha S. R, Prof. Sunita B, Prof. Deepa S. Bhat, Prof. Giridhar Rao M participated in a One Week Online National Faculty Development Program on "Data Visualization Using Tableau" conducted from April 1st to 5th, 2024, organized by the Department of Computer Science and Engineering, Mohan Babu University, Tirupati, Andhra Pradesh & EXCELR EDTECH PVT. LTD.

10.Dr. Asha S. R , Prof. Anuradha V, Prof. Deepa S. Bhat Participated in a 10-Hour National Faculty Development Program on "GenAI and Prompt Engineering using Microsoft Copilot" organized by P B Siddhartha College of Arts & Science, Department of CSE(DS) - Saraswati College of Engineering & CMR College of Engineering & Technology in collaboration with ExcelR Edtech Pvt. Ltd. from April 15th to 19th, 2024.

11.Dr. Asha S. R , Prof. Anitha K , Prof. Gnaneshwari T,R ,Prof. Saranya B participated in a 5-Day International Faculty Development Program on "Digital Marketing" organized by MIT Arts Commerce & Science College (Autonomous) - Maharashtra, Nishitha Degree College (Autonomous) - Nizamabad, Telangana, Seshadripuram College - Tumakuru, Karnataka, and P.B. Siddhartha College of Arts and Science - Andhra Pradesh in collaboration with ExcelR Edtech Pvt. Ltd. from 27th May to 31st May 2024.

12.Prof. Anitha K and Prof. Gnaneshwari T,R participated in a offline Faculty Development Program on "Computer Graphics and Image Processing" held from 22nd April 2024 to 27th April 2024, organized by the Department of CSE, SJB Institute of Technology.

13.Dr. Asha S. R , Prof. Deepa S. Bhat, Prof. Jyothi S. S , Prof. Anuradha V, Prof. Giridhar Rao M, Prof. Bhargavi Gorre, Prof. Anitha K ,Prof. Gnaneshwari T,R, participated in a 10-Hour International Faculty Development Program on "AI and Gen AI with Industry Application" organized by MIT Academy of Engineering (MIT AOE) Autonomous - Maharashtra, The National Institute of Engineering - Mysore, Narasaraopeta Engineering College Autonomous - Andhra Pradesh, and Matrusri Engineering College Autonomous - Telangana in collaboration with ExcelR Edtech Pvt. Ltd. from 16th July to 22nd July 2024.

14.Dr. Asha S. R. participated in an FDP on "Full Stack Python with Data Science" organized by MSME Technology from 11th June to 1st July 2024.

STUDENTS METRIC ACTIVITIES EVENT CONDUCTED / PARTICIPATIONS

1.Shridhar J (1ST23CS176) of the 3rd semester participated in National Science Day Quiz on 28 Feb 2024 organized by MyGov - Dept of Science & Technology

2.Pooja Kumari (1ST21CS146) of the 5th semester won 2nd place in Miss India Role Model 2024, a state-level competition organized on 11/02/2024.

3.Umme Kulsum (1ST20CS131), K Manjunath (1ST22CS081), K. Arun Kumar (1ST22CS080), Shalini K. G. (1ST21CS186), and Suhag S. Shetty (1ST21CS209) participated in the Cyber Conclave Hackathon organized by IISc, Bengaluru, on 25/02/2024.

4.K. Arun Kumar (1ST22CS080) also participated in the VTU Kabaddi Tournament on 19/02/2024.

5.Heena Ahmed (1ST20CS047) secured First place in the Salesforce Hackathon organized by Cambridge Institute of Technology on 09/03/2024.

5.Deeksha Reddy M R (1ST20CS063) secured Second place in the Salesforce Hackathon organized by Cambridge Institute of Technology on 09/03/2024.

6.Phavani D A (1ST21CS143) and Charan D N (1ST22CS039) secured First place in the Intra College Ramp Walk event organized by Sambhram Institute of Technology on 11/03/2024.

7.Aparna N. Soddy (1ST20CS014) successfully completed a 5-week Cyber Security Finishing School (CSFS) program conducted at Alva's Institute of Engineering and Technology, Mijar, Karnataka. The program was funded with Rs. 40 lakhs by K-Tech, an organization associated with the Department of Information Technology and Biotechnology, Government of Karnataka. A total of 50 final-year students from various universities and colleges across Karnataka were selected, including 20 students from other colleges, among whom Aparna N. represented Sambhram Institute of Technology.

8.Umme Kulsum (1ST20CS131) participated in the Salesforce Hackathon organized by Cambridge Institute of Technology on 10/03/2024.

9.Harsha T. (1ST22CS069) participated in the Inter College Cyber Security Hackathon organized by IISc on 28/03/2024.

10.A team comprising Apoorva Ronad (1ST 22CS023), Asadullah (1ST 22CS025), Bhuvan N (1ST 22CS032), and Faishal Rahman (1ST 22CS058) participated in an intracollege hackathon at Presidency University on May 15.
They secured 1st place and were awarded winning certificates, medals, and a cash prize of INR 8,000

11.Dhanush Kumar M (1ST22CS055) and Darshan K M (1ST22CS048) participated in an intracollege hackathon at Bangalore Institute of Technology on July 6-7, 2024. They secured 1st place and were awarded winning certificates.

12. Jeevan K N (1ST21CS087), Jayaprada B (1ST22CS075), Varun R (1ST22CS238), and Jennifer Rose N (1ST22CS078) participated in an intracollege hackathon at Gopalan College of Engineering on July 12-13, 2024. They secured 2nd place and were awarded winning certificates.
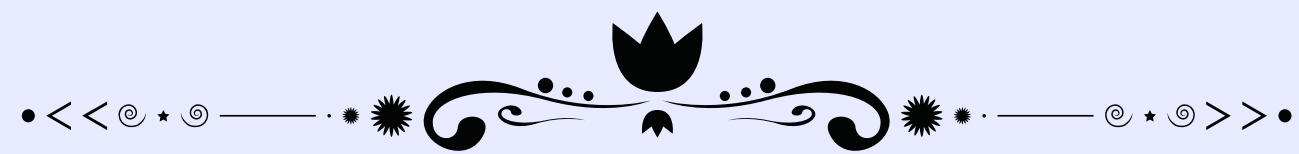
13.Sai Rajitha T N (1ST22CS179) and Navneetha Reddy (1ST22CS129) participated in an intracollege hackathon at Comed Kares on July 13, 2024. They secured 2nd place and were awarded winning certificates and a cash prize of INR 2,000.

14.Jeevan K N (1ST21CS087), Maanya N (1ST22CS098), Komal Pankhuri (1ST22CS088), Keerthana S (1ST22CS083), and Meghana M K (1ST22CS116) participated in an intracollege hackathon at Atria Institute of Technology on July 22. They secured 3rd place and were awarded winning certificates and a cash prize of INR 2,000.

15.Akhila Anant Gouda (1ST21CS007), Deepasha Shukla (1ST21CS059), Saurabh Kumar Gupta (1ST21CS185), and Pavan Kumar (1ST21CS141) participated in a national-level hackathon at Dayananda Sagar Academy of Technology on July 22-23, 2024. They secured 1st place and were awarded winning certificates.

EVENTS /ACTIVITIES CONDUCTED BY DEPARTMENT

1. The CSE Department organized an industrial visit to ISRO, Bengaluru, on February 9, 2023. The visit provided students with valuable insights into space research and technology.

2. Dr. K. Balakrishnan coordinated the technical talk on "Building Technology Enabled Ventures in India" held on 15/02/2024 in collaboration with the Computer Society of India (CSI).

3. Dr. K. Balakrishnan was the coordinator for the webinar "Understanding of Data Science, Data Analyst, and Artificial Intelligence" conducted on 28/02/2024 in collaboration with ExcelR EdTech Pvt. Ltd.

4. Prof. Hanumantha Rao K. R. coordinated a 20-day SDP on Advanced IT skill training on Data Dnalytics conducted from 09/02/2024 to 29/02/24 in association with Mphasis Foundation and ICT Academy.

5. The CSE Department was involved in the project "Virtual Scribe for Visually Impaired Learners Through Interactive Speech-Based Application", which was presented at the International Conference on Human-Centric Smart Computing.

6. The CSE Department conducted a seminar on abroad education opportunities, providing students with insights into higher studies, admission processes, scholarships, and career prospects in international universities by S-Maths Academy on 24/05/2024.


7. The Department of Computer Science and Engineering (CSE) successfully organized a Tech Talk on "Cyber Security Awareness - Intelligence for Undisrupted Business" on 29th May 2024. The session aimed to enhance awareness of cybersecurity threats, intelligence strategies, and best practices to ensure business continuity without disruptions.
uable insights into space research and technology.
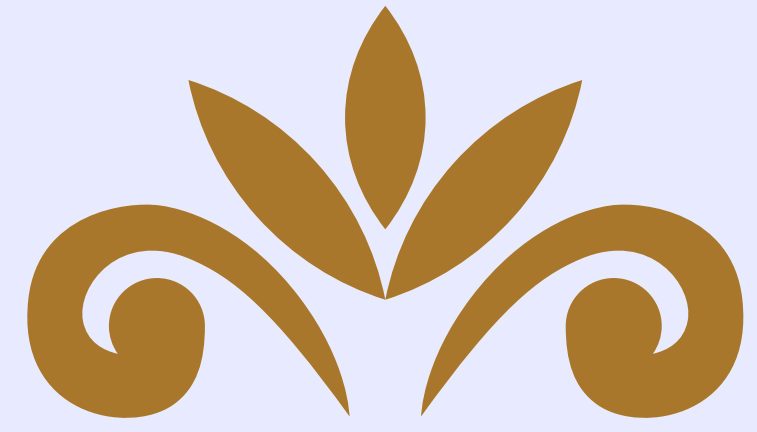
8.The Department of Computer Science and Engineering (CSE) organized a seminar in collaboration with Colt-assist on 4th July 2024 at the CSE Seminar Hall. The session focused on internship hiring opportunities in Java, Python, Cybersecurity, and IoT, providing students with insights into industry expectations and career prospects.
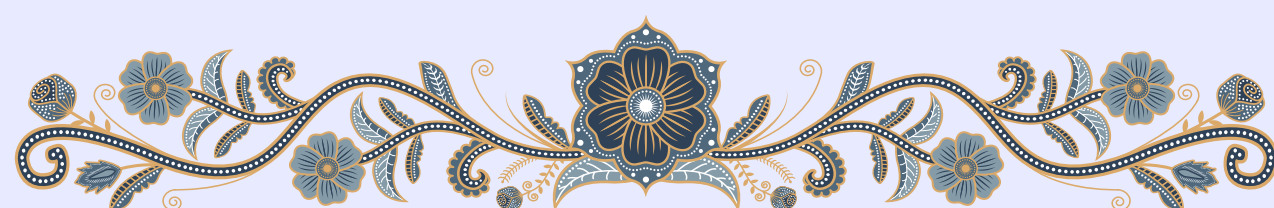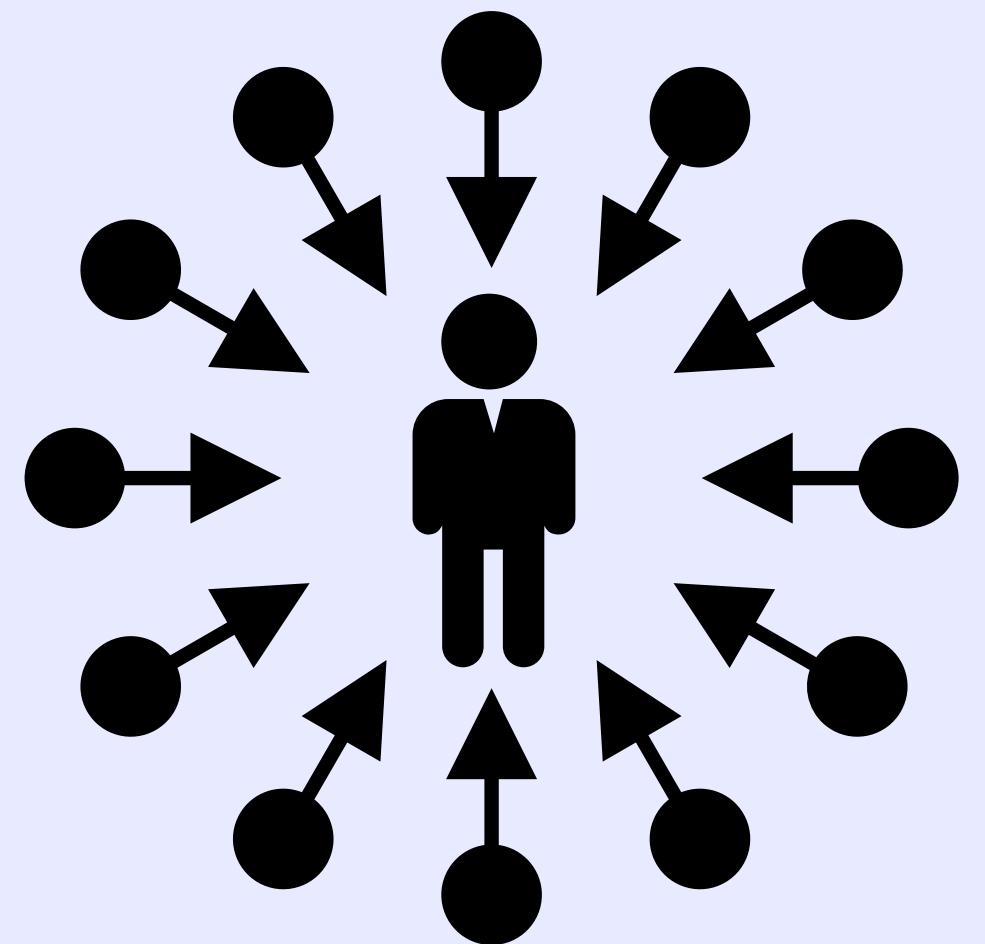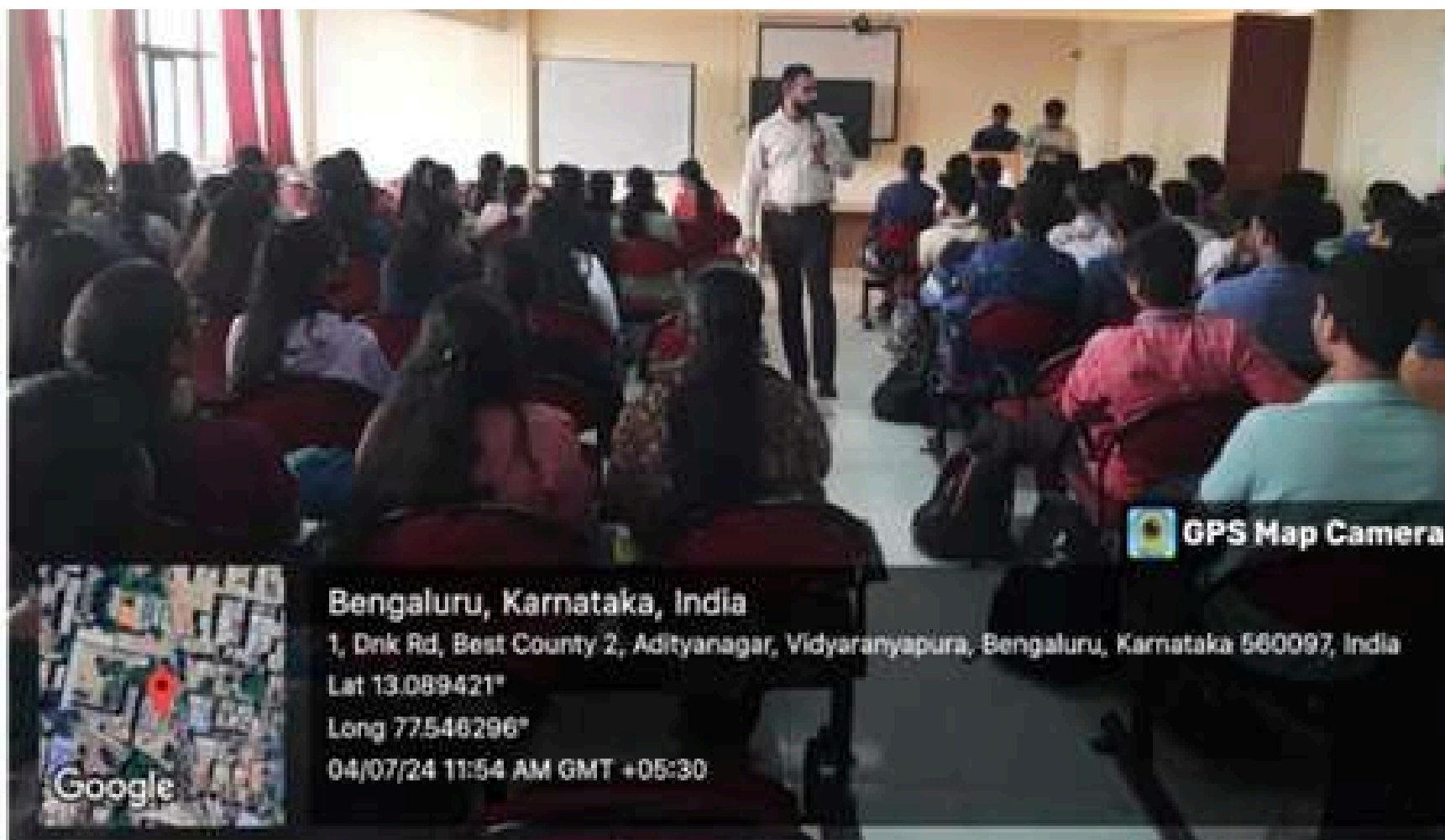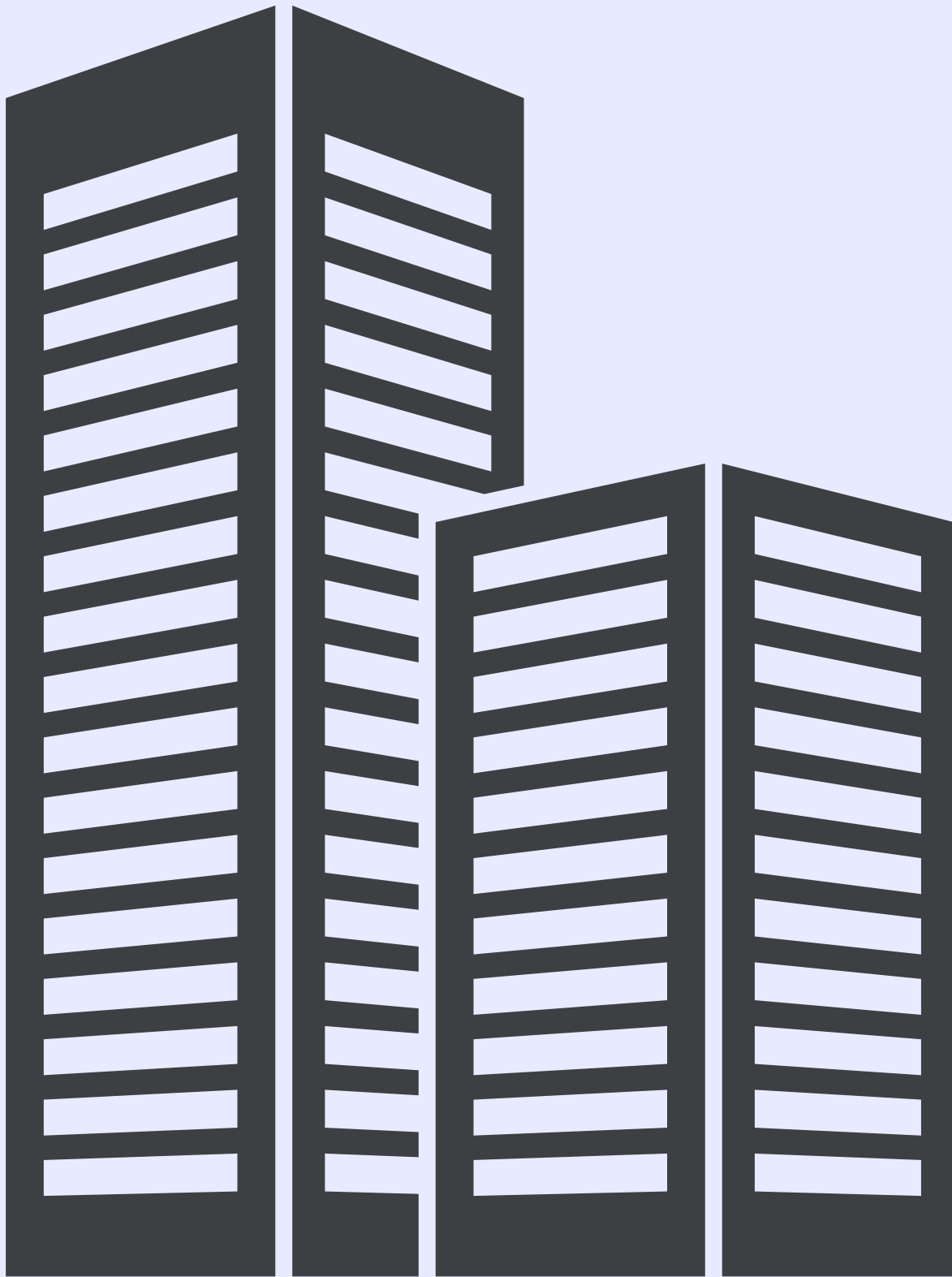
PLACED STUDENTS –VIII SEMESTER

1. Manisha Rao N (1ST20CS068) was placed at Global Quest Technologies as a Software Engineer on 26/03/2024 with a package of 4 LPA.

2. Deeksha Reddy M R (1ST20CS063) was placed at Global Quest Technologies as a Software Engineer on 26/03/2024 with a package of 4 LPA.

3. Vishal Sharma (1ST20CS136) was placed at Global Quest Technologies as a Software Engineer on 26/03/2024 with a package of 4 LPA.

4. Pooja C Patil (1ST20CS083) was placed at Global Quest Technologies as a Software Engineer on 26/03/2024 with a package of 4 LPA.

5. Chandranath Yadav (1ST20CS029) was placed at Global Quest Technologies as a Software Engineer on 26/03/2024 with a package of 4 LPA.

6. Suraj Kumar (1ST20CS126) was placed at Global Quest Technologies as a Software Engineer on 26/03/2024 with a package of 4 LPA.

7. Heena Ahmed (1ST20CS047) was placed at Global Quest Technologies as a Software Engineer on 26/03/2024 with a package of 4 LPA.

8. Adithya R (1ST20CS006) was placed at Global Quest Technologies as a Software Engineer on 26/03/2024 with a package of 4 LPA.

9. Prashant Raj (1ST20CS086) was placed at Global Automation Pvt Ltd as a Software Engineer on 23/03/2024 with a package of 5 LPA.

10. Aparna N Soddy (1ST20CS014) was placed at TAP Ed Tech Pvt Ltd as a Software Developer on 12/05/2024 with a package of 5 LPA.

11. Bishal Timalsina (1ST20CS024) was placed at TAP Ed Tech Pvt Ltd as a Software Developer on 12/05/2024 with a package of 5 LPA.

12. Hithyashini V (1ST20CS049) was placed at TAP Ed Tech Pvt Ltd as a Software Developer on 12/05/2024 with a package of 5 LPA.

13. Keerthiraj S (1ST20CS056) was placed at TAP Ed Tech Pvt Ltd as a Software Developer on 12/05/2024 with a package of 5 LPA.

14. Preethi H V (1ST20CS089) was placed at TAP Ed Tech Pvt Ltd as a Software Developer on 12/05/2024 with a package of 5 LPA.

15. Vishal Sharma (1ST20CS136) was placed at TAP Ed Tech Pvt Ltd as a Software Developer on 12/05/2024 with a package of 5 LPA.

16. Umme Kulsum (1ST20CS131) was placed at TAP Ed Tech Pvt Ltd as a Software Developer on 12/05/2024 with a package of 5 LPA.

17. Deepthi Thakshith BP (1ST20CS035) was placed at TAP Ed Tech Pvt Ltd as a Software Developer on 12/05/2024 with a package of 5 LPA.

18. Aparna N Soddy (1ST20CS014) was placed at X-WORKS as a Software Trainee on 17/05/2024 with a package of 3-6 LPA.

19. Goutham Raj K P (1ST20CS040) was placed at X-WORKS as a Software Trainee on 17/05/2024 with a package of 3-6 LPA.

20. Govind (1ST20CS041) was placed at X-WORKS as a Software Trainee on 17/05/2024 with a package of 3-6 LPA.

21. Karthik V (1ST20CS054) was placed at X-WORKS as a Software Trainee on 17/05/2024 with a package of 3-6 LPA.

22. Prakruthi B C (1ST20CS085) was placed at X-WORKS as a Software Trainee on 17/05/2024 with a package of 3-6 LPA.

23. Shiladitya Suman (1ST20CS110) was placed at X-WORKS as a Software Trainee on 17/05/2024 with a package of 3-6 LPA.

24. Shreedevi M Gundluru (1ST20CS113) was placed at X-WORKS as a Software Trainee on 17/05/2024 with a package of 3-6 LPA.

25. Sneha S Badiger (1ST20CS116) was placed at X-WORKS as a Software Trainee on 17/05/2024 with a package of 3-6 LPA.

26. Vishnu T A (1ST20CS137) was placed at X-WORKS as a Software Trainee on 17/05/2024 with a package of 3-6 LPA.

27. Vishal Sharma (1ST20CS136) was placed at Maventic Pvt Ltd as a QA/Testing Engineer (Automation) on 18/05/2024 with a package of 3.5 LPA.

28. Chandranath Yadav (1ST20CS029) was placed at Maventic Pvt Ltd as a QA/Testing Engineer (Automation) on 18/05/2024 with a package of 3.5 LPA.

29. D.P. Prajwal (1ST19CS096) was placed at EPAM India Pvt Ltd as a Software Developer on 05/06/2024 with a package of 9 LPA.

30. Tamanna (1ST20CS127) was placed at Tech Mahindra Ltd as a Software Developer on 29/04/2024 with a package of 5.5 LPA.

31. Prashant Raj (1ST20CS086) was placed at Tech Mahindra Ltd as a Software Developer on 29/04/2024 with a package of 5.5 LPA.

32. Chandranath Yadav (1ST20CS029) was placed at Tech Mahindra Ltd as a Software Developer on 29/04/2024 with a package of 5.5 LPA.

33. Debprakash Mandal (1ST20CS031) was placed at Tech Mahindra Ltd as a Software Developer on 29/04/2024 with a package of 5.5 LPA.

34. Shashank M (1ST20CS108) was placed at Tesco Pvt Ltd as an Associate Property Delivery Planner on 25/06/2024 with a package of 5 LPA.

35. Sachin Saurav (1ST20CS096) was placed at Hashedin by Deloitte as a Trainee on 10/07/2024 with a package of 3 LPA.

From Struggles to Strength: The Journey of a Tough Life Conquered

by

Shridhar J

1ST23CS176

3rd SEM, D SEC,CSE

Life is not always kind. It tests, breaks, and pushes us to the edge. But for those who refuse to give up, every hardship becomes a stepping stone to greatness. This is a survival not a story, but of victory of standing tall after being knocked down.

1. The Fire That Forged Me

"I walked through fire, but I didn't burn - I became stronger." Every challenge I faced was a flame meant to destroy me. Instead, it refined me, shaping my resilience and willpower. I learned that pain is temporary, but the strength it leaves behind is forever.

2. The Scars That Speak

"Every scar tells a story, and mine speaks of resilience, not defeat but victory."

I carry my past not as a burden, but as a testament to my endurance. Every scar, whether visible or hidden, reminds me that I overcame what was meant to break me.

3. The Doubt That Fueled Me

"They doubted me, life tested me, but I proved that nothing is impossible."

Many said I wouldn't make it. Life threw obstacles at me. But I turned every doubt into fuel and every setback into motivation. Today, I stand not as a victim, but as a conqueror.

4. Rising from Rock Bottom

"Rock bottom was my foundation, and building my empire from there."

There was a time when I had nothing no hope, no direction. But instead of give-up, I used my lowest moments as the ground on which I built my dreams.

5. Dancing in the Storm

"The storm tried to break me, but it only taught me how to dance in the rain."

Life never gave me perfect conditions, yet I learned to move forward despite the chaos. I embraced the struggle, knowing that even storms pass, leaving behind clearer skies.

6. Turning Pain into Power

"I turned my pain into power, my struggles into strength, and my failures into fuel."

Every fear, every loss - I transformed them into lessons. Instead of being bitter, I became better. Instead of giveup, I fought harder.

7. Unbreakable Spirit

"Life knocked me down a thousand times, but I stood up a thousand and one time."

The secret to success is simple: never stay down. I refused to let failure define me. No matter how many times I fell, I rise stronger each time.

8. A Past That Built Me

"My past was tough, but it shaped me into the warrior I am today."

I no longer fear my past. It was my greatest teacher, my toughest challenge, and my most valuable gift. It turned me into someone who fears nothing and believes in everything possible & made me as best characterized person.

9. The Ultimate Comeback

"I turned my wounds into wisdom and my setbacks into comebacks."

Every failure was just a setup for a greater comeback. Every rejection was redirection to something better. I learned that success isn't about never falling - it's about always rising.

10. The Victory of Endurance

"I didn't just survive - I conquered, I thrived, and I rise higher than ever before."

Survival was never enough for me. I wanted more! I wanted to live, to inspire, and to achieve. Today, I look back and realize: the toughest battles created the strongest warrior.

Conclusion:

Life may not be easy, but it is worth fighting for. Strength is not born from comfort but from struggle. It's Just a Beginning!, If you've been through the hardest times and still stand tall, know this—you have already won.

The Battle Between Big Tech and Open-Source AI

VARSHA V

1ST21C2228

6TH SEM, D SEC,CSE

Artificial Intelligence (AI) is changing the world, but a big debate has emerged: Should AI models be open to everyone, or should companies keep them private? This debate became even stronger as big tech companies like Google and Open AI restricted access to their AI models, while open-source supporters pushed for more transparency. Open-source AI means that AI models, data, and tools are freely available for anyone to use, modify, and share. Examples include: Meta's Llama 2, a free AI model., Mistral AI, an open-source company., Hugging Face, a platform for AI developers.

Big companies like OpenAI, Google, and Microsoft spend a lot of money developing AI and often keep their models private for reasons like: Business Advantage: Private AI gives companies a competitive edge., Security Risks: Open AI can be misused for fake news and cyberattacks., Profit: AI models like ChatGPT make money through subscriptions.

The battle between big tech companies and open-source AI communities has been growing, especially between August and October 2024. AI is developing rapidly, with companies like OpenAI, Google, and Microsoft investing billions to create advanced models. However, a major debate has emerged over whether AI should be controlled by large corporations or be freely available to everyone. Open-source AI allows developers, researchers, and small businesses to use, modify, and improve AI models without restrictions. Examples include Meta's Llama 2, Hugging Face's transformers, and Mistral AI, which promote transparency and collaboration. Supporters of open AI believe that making AI accessible fosters innovation and allows for better improvements through community-driven efforts.

On the other hand, big tech companies argue that keeping AI proprietary helps maintain quality, prevent misuse, and ensure security. They fear that open AI models can be exploited for cybercrime, misinformation, and unethical activities. For instance, OpenAI faced criticism in October 2024 for restricting access to its latest model, GPT-5, citing security concerns. Meanwhile, companies like Meta and Mistral AI continued pushing open-source initiatives, and Elon Musk's xAI released "Grok-2" as an open-source chatbot. Governments also stepped in, debating regulations on AI openness versus national security risks. The future of AI remains uncertain, with a key challenge being how to balance innovation and accessibility with safety and responsible governance. If big tech companies continue to limit access, open-source movements may grow stronger, challenging corporate control over AI.

Chhattisgarh Approves India's Third-Largest Tiger Reserve: A Big Win for Conservation

SONU N M

USN: 1ST21CS288

6TH SEM, D SEC ,CSE

IBM Watson for Oncology: Shaping the Future of Cancer Care

Hafsa Kause

1ST22CS063

4th SEM A, CSE

In August 2024, the Chhattisgarh government approved the establishment of India's third-largest tiger reserve, a crucial move for wildlife conservation. The new reserve will be located in the Guru Ghasidas National Park and Tamor Pingla Wildlife Sanctuary, spanning approximately 2,500 square kilometres. This decision aligns with India's long-term efforts to protect its tiger population, which has faced significant threats due to habitat destruction, human encroachment, and poaching. The initiative will not only safeguard Bengal tigers but also provide a secure environment for other wildlife, including leopards, sloth bears, Indian bison, and a variety of migratory birds. By strengthening conservation policies, the reserve aims to enhance biodiversity while ensuring ecological balance.

Apart from its environmental significance, the new tiger reserve is expected to contribute to local economic growth by promoting eco-tourism. Increased tourism will generate employment opportunities for communities in and around the reserve, including jobs in hospitality, tour guiding, and wildlife research. The development of better infrastructure, such as roads and eco-lodges, will further boost accessibility and sustainable tourism. Additionally, local artisans and businesses can benefit from the growing interest in handicrafts and traditional products. However, with these developments, challenges such as human-wildlife conflict and illegal poaching must be carefully managed. Strengthening anti-poaching measures, involving local communities in conservation programs, and implementing strict wildlife monitoring systems will be essential for the success of the reserve.

The National Tiger Conservation Authority (NTCA) and the Chhattisgarh Forest Department will play a key role in overseeing the management of the reserve, ensuring that it meets conservation standards and serves as a model for other states. The approval of this reserve reinforces India's status as a global leader in tiger conservation, following successful initiatives such as Project Tiger.

What is IBM Watson for Oncology?
IBM Watson for Oncology is a revolutionary AI-driven system designed to assist oncologists in making informed, personalized treatment decisions. By processing vast amounts of medical data—such as medical literature, clinical trial outcomes, and patient records—Watson offers healthcare professionals insights that can lead to the most effective and timely treatment recommendations. This empowers oncologists to select treatments based on the most up-to-date, evidence-based information available, enhancing their ability to tackle complex cancers that often require precision interventions.

Advancing Research and Precision Medicine
One of the most significant ways Watson for Oncology is changing cancer care is through Precision medicine focuses on tailoring treatments to individual patients based on their unique genetic makeup, lifestyle, and other factors. Watson is uniquely equipped to analyze and synthesize complex data from sources like genomic information, patient history, and the latest scientific studies to help physicians make treatment decisions that are specifically suited to each patient's needs. This personalized approach is particularly valuable for patients with rare or difficult-to-treat cancers, where traditional treatment options may be less effective.

Watson for Oncology is also enhancing clinical research by providing valuable insights that can help identify patterns in patient responses to treatment, potentially leading to new discoveries. For students and faculty involved in medical research, Watson offers the opportunity to explore large datasets and contribute to innovative research initiatives aimed at advancing cancer care.

Educational Impact
As a tool that blends healthcare with artificial intelligence, IBM Watson for Oncology presents a unique learning opportunity for students and researchers in fields such as medical informatics, biomedical engineering, data science, and oncology. Leading academic institutions, including universities, are already integrating Watson's capabilities into their curricula and research programs.

Students can engage with Watson's AI technology to understand how machine learning and data-driven approaches are transforming clinical decision-making in oncology. This hands-on experience is preparing the next generation of healthcare professionals to apply advanced AI in real-world medical environments. By working with Watson's platform, students gain exposure to how AI is reshaping healthcare delivery and discover new areas for collaboration between technology and medicine.

Real-World Applications

The practical applications of Watson for Oncology are profound. Recent studies have shown that Watson can help oncologists diagnose rare forms of cancer by analyzing patient data and identifying patterns that might not be immediately apparent. Watson is also instrumental in recommending personalized treatment plans based on the patient's specific diagnosis, previous treatments, and the latest research.

Additionally, Watson plays a crucial role in matching patients with appropriate clinical trials, expanding treatment options, and ensuring that patients have access to the latest therapies. By examining thousands of clinical trial outcomes, Watson is able to help identify trials that are most

relevant to a patient's condition, increasing the likelihood of finding a treatment that could improve survival and quality of life.

For students, researchers, and future healthcare providers, Watson offers a unique opportunity to understand how technology is improving patient care. As they gain experience using Watson's AI capabilities, they can directly contribute to solving some of the most challenging problems in oncology and make a meaningful impact on patient outcomes.

Looking Ahead: The Future of AI in Oncology

The future of oncology care is increasingly intertwined with artificial intelligence. With Watson's growing ability to incorporate genomics data, it is playing an increasingly important role in the development of *targeted therapies that are based on a patient's genetic profile. This development is particularly exciting as it opens the door to more personalized and effective treatments for patients with genetic mutations that drive cancer growth.

As Watson continues to evolve, it is expected to become even more integrated into clinical decision-making and research. Watson's ability to continuously learn from clinical data, patient outcomes, and medical literature means that its knowledge base is always up to date, allowing healthcare professionals to make the best decisions based on the most current evidence.

For students interested in careers in AI, healthcare, genomics, or oncology, Watson for Oncology represents an exciting and transformative field to explore. Opportunities for involvement in Watson-related research projects, clinical trials, and internships are on the rise, offering students invaluable exposure to cutting-edge technology and its real-world applications.

Building Emotional Intelligence for Personal growth

Ganavi.C
1ST22CS065
4th SEM A, CSE, CSE

Building emotional intelligence (EI) is essential for personal growth and overall well-being. Emotional intelligence refers to the ability to recognize, understand, and manage our own emotions while also being able to recognize and influence the emotions of others. Developing EI can lead to better relationships, improved mental health, and greater success in both personal and professional areas of life.

One of the first steps in enhancing emotional intelligence is self-awareness. This involves taking the time to reflect on one's emotions and understanding how they affect thoughts and behaviours. Keeping a journal can be a helpful tool for tracking emotional responses to different situations, which can lead to greater insight into triggers and patterns. Mindfulness practices, such as meditation or deep breathing exercises, also promote self-awareness by helping individuals stay present and observe their emotional states without judgment.

Another crucial component of emotional intelligence is empathy, the ability to understand and share the feelings of others. Developing empathy involves actively listening and engaging with others' perspectives. This can be practiced by asking open-ended questions and showing genuine interest in others' experiences. By fostering empathy, individuals can build stronger connections and improve their communication skills, which are vital for both personal and professional relationships. Additionally, learning to manage emotions, particularly in challenging situations, can enhance resilience and adaptability, further contributing to personal growth.

In conclusion, building emotional intelligence is a continuous journey that involves self-awareness, empathy, and emotional regulation. By investing time and eff ort into these areas, individuals can experience profound personal growth, leading to healthier relationships and a more fulfilling life.

Sustainable AI and Green Computing

By Prof. Suchitra Devi A
Dept of CSE, SaIT

As AI adoption grows, its energy consumption is becoming a significant concern. Deep learning networks require vast computational power, leading to high electricity usage and carbon emissions. Sustainable AI focuses on energy-efficient models to reduce environmental impact, complemented by green computing, which optimizes hardware and infrastructure for minimal energy consumption. Governments, industries, and researchers are increasingly prioritizing AI sustainability to ensure a balance between technological advancement and environmental responsibility.

Energy-Efficient AI Models

Advancements like TinyML and edge computing enable AI to run on low-power devices, reducing reliance on energy-intensive cloud computing. TinyML operates on microcontrollers, consuming milliwatts of power. Techniques like pruning, quantization, and knowledge distillation further optimize neural networks while maintaining performance. AI researchers are also exploring federated learning, which allows AI training to occur on decentralized devices, reducing the need for continuous cloud processing. Additionally, AI models are being designed to dynamically adjust complexity based on task requirements, minimizing energy usage without sacrificing accuracy.

Carbon-Neutral Data Centers

Companies like Google, Microsoft, and Amazon invest in carbon-neutral data centers using renewable energy. AI optimizes energy usage by dynamically adjusting cooling and hardware efficiency. Technologies like liquid cooling and AI-driven predictive maintenance enhance sustainability. Additionally, waste heat from data centers is being repurposed to provide energy for local communities, further reducing environmental impact. Emerging innovations in AI-powered energy distribution systems are also being integrated to balance workloads efficiently, reducing power spikes and improving grid stability.

Eco-Friendly AI Hardware

Traditional GPUs and TPUs consume vast energy, prompting research into neuromorphic and quantum computing for greater efficiency. Low-power AI accelerators and ARM-based processors further contribute to energy savings. Emerging photonic computing technology, which uses light instead of electricity for processing, is also being explored to reduce power consumption. Advances in biodegradable and recyclable hardware materials are also gaining traction, aiming to reduce e-waste generated by obsolete AI devices. Companies are experimenting with modular AI chips that allow for component upgrades instead of complete replacements, extending hardware lifespan.

AI for Climate Change Solutions

Machine learning aids environmental conservation by:

- Optimizing energy grids to reduce wastage.
- Monitoring deforestation via satellite imagery.
- Predicting extreme weather for disaster preparedness.
- Enhancing precision agriculture for efficient resource use.
- Tracking and reducing carbon emissions in industries.
- Assisting in ocean conservation by analyzing marine biodiversity and detecting pollution patterns.
- Supporting sustainable urban development through AI-powered environmental impact assessments.
- Advancing carbon capture technologies by optimizing chemical processes and material selection.

The Future of Sustainable AI

Innovations in low-power AI chips, energy-efficient algorithms, and green cloud computing will further reduce AI's carbon footprint. Governments and organizations are prioritizing AI policies for sustainability. Companies embrace circular economy models, designing AI hardware for recyclability and longevity. AI-powered simulations assist in smart city planning and renewable energy distribution. Moreover, regulatory frameworks and incentives are being introduced to encourage AI developers to adopt sustainable practices. Research into self-sustaining AI systems that generate their own renewable energy through embedded solar cells and kinetic energy harvesting is also gaining momentum.

By integrating sustainability into AI, the tech industry can innovate while minimizing environmental impact. Sustainable AI and green computing are crucial for a greener future, ensuring that technological advancements align with global climate goals. Cross-industry collaborations, public awareness initiatives, and policy-driven incentives will be key in shaping the sustainable AI landscape for years to come.

Balancing Authority and Approachability: Walking the Tightrope Between Discipline and Connection

By Prof. Saranya.B
Dept of CSE, SaIT

As a teacher, I constantly reflect on the delicate balance between maintaining authority and fostering an approachable, friendly rapport with students. Teaching goes beyond delivering lessons; it involves nurturing discipline, building trust, and creating an environment where students feel motivated and supported. Striking this balance takes experience and adaptability, yet it is key to shaping a meaningful educational experience.

A teacher's influence extends far beyond academic instruction. We play multiple roles—mentors, disciplinarians, and sometimes even role models. Our responsibility is to foster an environment where students are held accountable for their progress while feeling encouraged to grow. Being too strict can instill fear rather than respect, discouraging students from engaging openly. Conversely, being overly friendly might lead to a loss of structure and diminished student responsibility.

Establishing clear expectations from the beginning is crucial. Students must understand that while they can rely on their teachers for support,

there are standards to be upheld. Implementing and consistently reinforcing reasonable rules provides a structured setting in which students thrive. However, fairness in rule enforcement is essential to prevent resentment and promote a positive classroom dynamic
.

Respect is a key ingredient in effective teaching. While a strict teacher may command compliance, a respected teacher earns a student's willingness to learn and participate actively. Respect is built through fairness, consistency, and demonstrating genuine care for students' well-being. One of the best ways to cultivate this respect is by listening—acknowledging students' opinions and concerns makes them feel valued and understood. This reassures them that discipline exists not as a means of control but as a tool for personal and academic growth.

Communication bridges the gap between authority and approachability. Encouraging students to express themselves freely fosters an open and inclusive classroom atmosphere. While maintaining professional boundaries, a teacher can still be empathetic and supportive, which strengthens student-teacher relationships. Holding regular discussions, offering constructive feedback, and facilitating one-on-one interactions ensure that students feel heard and guided rather than reprimanded.

Recognizing that each student is unique is essential for effective teaching. A rigid, one-size-fits-all approach is rarely successful. Some students respond well to firm discipline, while others flourish with a more nurturing approach. Being attentive and adaptable allows educators to cater to varied learning styles and personality types, ultimately enhancing student engagement and performance.

Teachers serve as living examples of the values they wish to instill. Punctuality, responsibility, and perseverance are more effectively taught through demonstration than mere instruction. When students observe these traits in their teachers, they are more likely to adopt them in their own lives.

Balancing strictness with approachability is an ongoing process of evaluation and adaptation. It involves recognizing what works best for each group of students and making necessary adjustments along the way.

The ultimate goal is to cultivate a supportive yet disciplined learning environment where students feel inspired to push their limits while knowing they have a reliable guide by their side. Teaching is not about wielding control or merely being a companion; it is about leading students toward success with a blend of firmness and encouragement. A well-balanced teacher not only educates but also leaves a lasting, positive impact on their students' lives.

ART BY STUDENTS

BY SHASHANK D S, 6TH SEM CSE
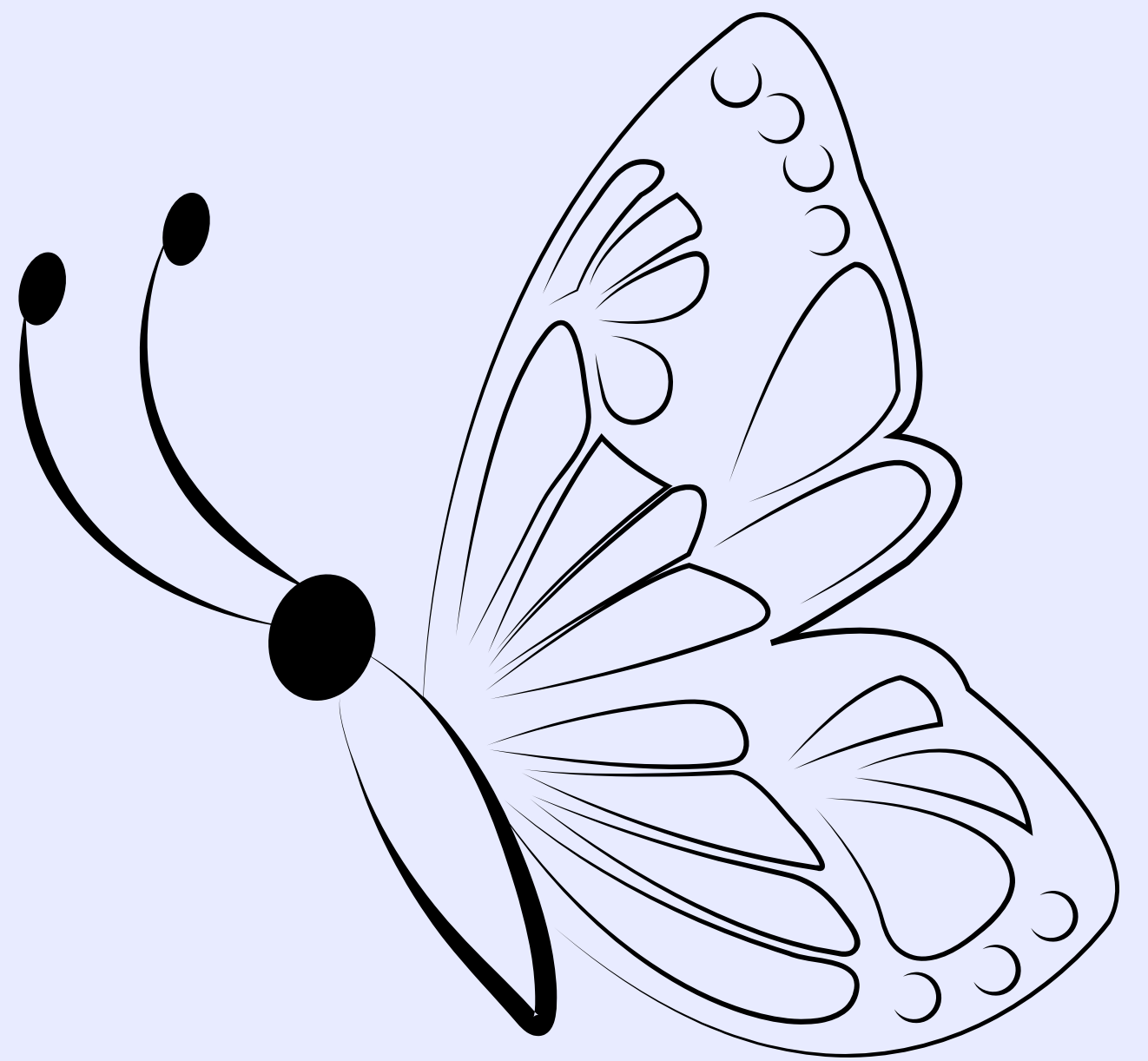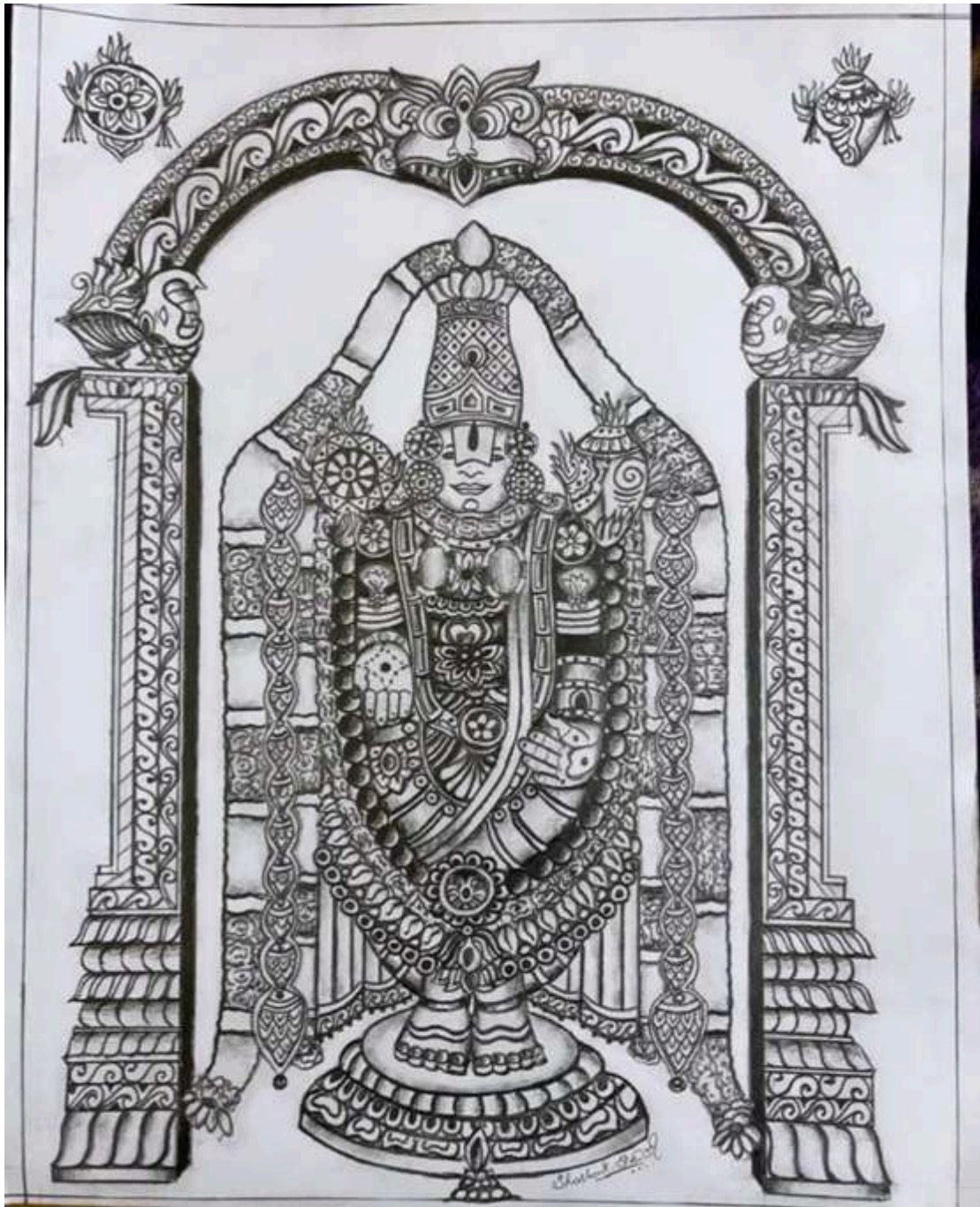
BY KIRAN C BADIGAR, 6TH SEM CSE
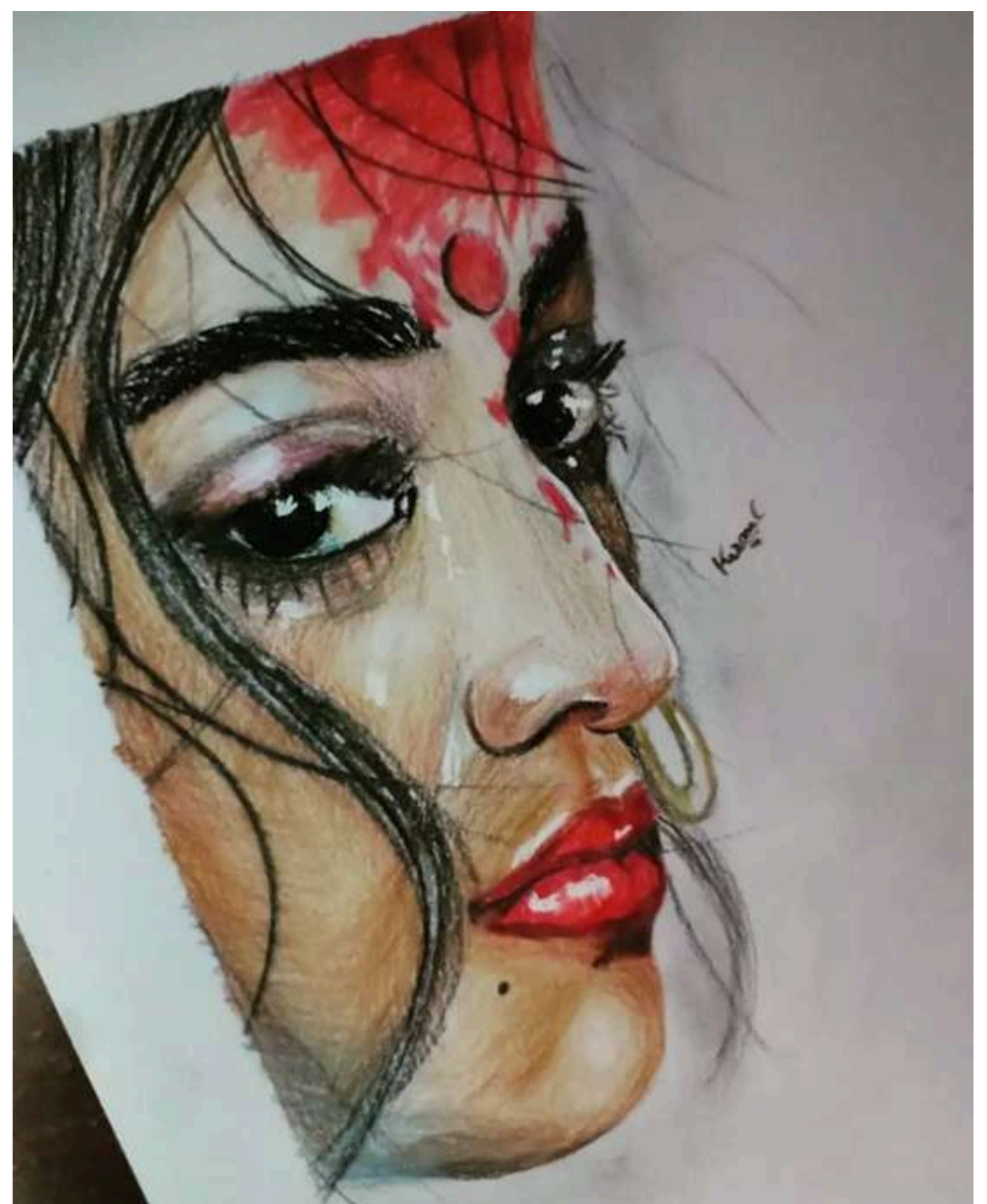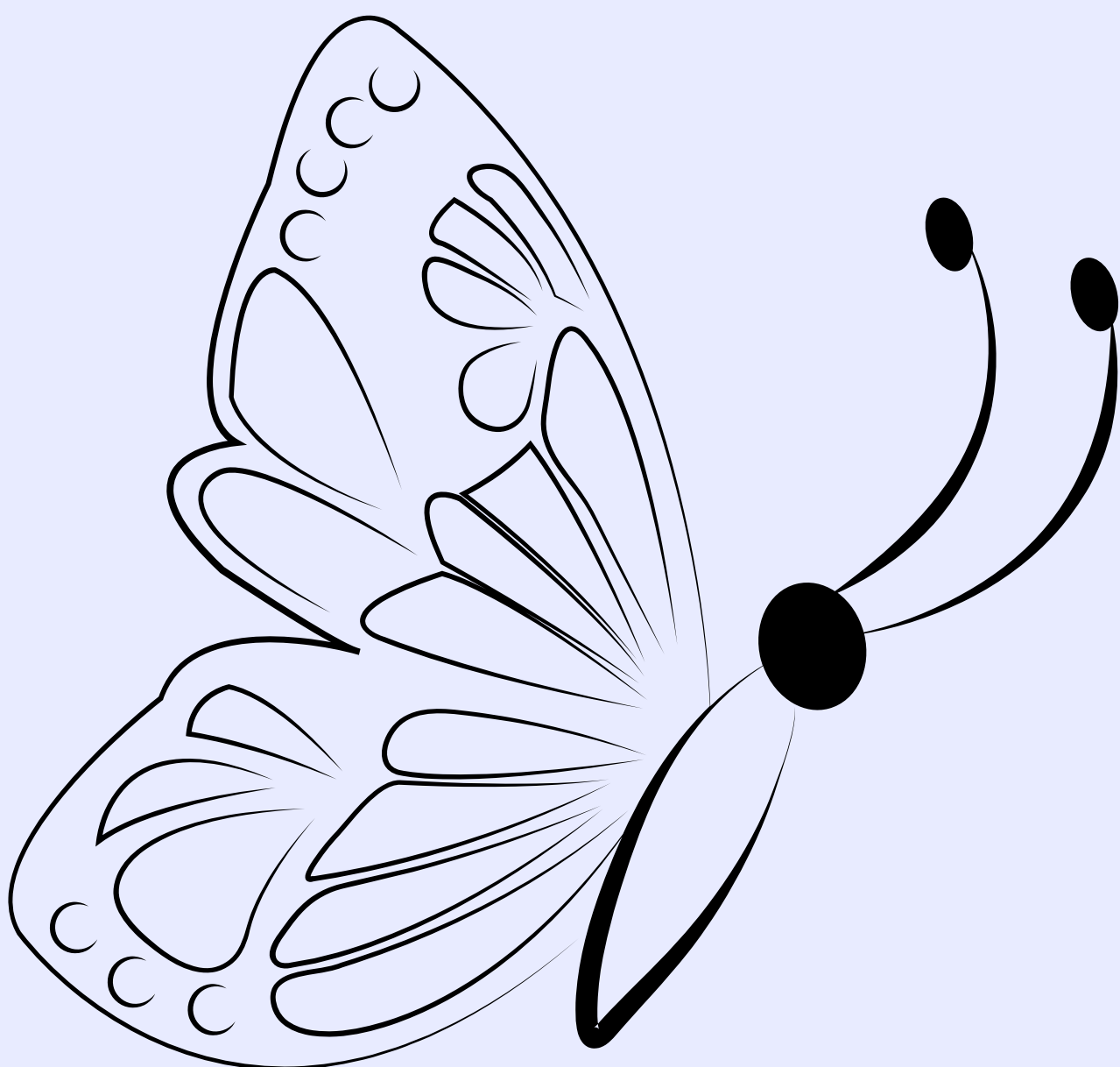
DEPARTMENT OF
CSE (CYBER SECURITY)

HoD's Message

Dr. Sanjeetha. R

HOD - Department of CSE (Cyber Security)

Learning cybersecurity is essential in today's digital age for safeguarding sensitive information, preventing cyber threats, and ensuring the security of online interactions. Given the escalating frequency and complexity of cyberattacks, comprehending cybersecurity empowers both individuals and organizations to protect their digital assets, preserve privacy, and foster a secure online environment.

The Department of CSE (Cyber Security) in Sambhram Institute of Technology emphasizes the importance of bridging the gap between theory and real-world applications. This emphasis equips students to become adept problem solvers and proficient security professionals. With a focus on hands-on experience, collaborative projects, and industry partnerships, we prepare our students to confront the intricate challenges of the contemporary digital landscape. Our goal is not solely to excel in cybersecurity but also to make a positive contribution to our interconnected world.

ABOUT THE DEPARTMENT

The Department of CSE(Cyber Security) is established in the year 2022 with a sanctioned intake of 60 students. The department has well-experienced faculty with expertise in cybersecurity. It has state-of-art laboratories with licensed software and unlimited internet access. The Department conducts project competitions, hackathons, seminars, technical talks, and various other events to upgrade the skills of the students. Students get exposure to real-time projects, consultancy projects, and sponsored projects in the area of cybersecurity. Students are encouraged to become part of Professional societies like IEEE, CSI, ISTE, etc. and participate in their events. Students are trained to conduct research and innovation in cybersecurity and publish research papers in reputed conferences and journals. Students will be placed in leading national and multinational companies based on their performance and merit. Students are encouraged to go for higher studies and required guidance is provided by the department.

FEBRUARY 2024-JULY 2024
FACULTIES EVENT'S ORGANIZED /PIONEERED/PARTCIPATION
HIGHLIGHTS

Dr. Sanjeetha R:
Submitted proposal to AICTE- VAANI (Vibrant Advocacy for Advancement and Nurturing of Indian Languages) to conduct 3 days seminar on "Fortifying Cyber security: Strengthening the Digital Defense" on 8th April 2024.

Organized the event "Unleash the power of Virtual Reality" on 15-03 – 2024.

Attended as Member of BoE for MTech paper
scrutiny for the course Cyber Security on
14-03-2024

Attended 5 days FDP Program on "Exploring the Future: Quantum Federated Learning and Explainable AI Technologies for Enhanced Learning" from 18th -22nd March 2024 at Ramaiah Institute of Technology, Bangalore.

Technical Talk Coordinator for Student Exchange Program for Sambhram University, Jizzax, Uzbekistan from 4th March to 16th March 2024

Attended 2 days event of Final Round of Hackathon on Cyber Security by Cyber Crimes Conclave division of NEWS 1st Channel on 28th and 29th February 2024 at IISC, Bangalore.

Visited Ray Mechatronics and Machinery Company for visit of Uzbekistan students on 23rd February 2024.

Organized the event "Internal Evaluation of Hackathon on Cyber Security" in association with Cyber Crimes Conclave and NEWS 1st channel on 21st February 2024.
Organized Food Fest as part of SCR activity on 16th February 2024.
Organized talk for "Hackathon on Cyber Security" in association with Cyber Crimes Conclave and NEWS 1st channel on 6th February 2024.

Prof. B Ganga
Attended FDP on "Optimizing machine learning work flows" from 24th to 28th June 2024 at New Horizon college of Engineering, Bengaluru.

Prof. B. Ganga is pursuing a Ph.D. in Computer Science and Engineering (CSE) at Bangalore University, with her research titled 'Crowd Behaviour Analysis Using Deep Learning.' She is affiliated with the University Visvesvaraya College of Engineering (UVCE), which follows the IIT model. She registered for her Ph.D. on October 22, 2020. As of July 2024, she has published two conference papers and three journal papers related to her research.

Prof. Snehal Rathi
Attended Online NFDP on "Data Visualization Using Tableau" from 1st to 5th April, 2024.
Co-ordinated for the event "Unleash the power of Virtual Reality on 15-03-2024.
Co-ordinator for "Internal Evaluation of Hackathon on Cyber Security" in association with Cyber Crimes Conclave and NEWS 1st channel on 21st February 2024.
Co-ordinator for Food Fest as part of SCR activity at 16th February 2024.
Co-ordinator for the talk "Hackathon on Cyber Security" in association with Cyber Crimes Conclave and NEWS 1st channel on 6th February 2024.

Prof. Bhagyashree Hosmani

Attended 5 days FDP Program on "Exploring the Future: Quantum Federated Learning and Explainable AI Technologies for Enhanced Learning" from 18th -22nd March 2024, Ramaiah Institute of Technology, Bangalore.

Co-ordinator for "Internal Evaluation of Hackathon on Cyber Security" in association with Cyber Crimes Conclave and NEWS 1st channel on 21st February 2024.

Co-ordinator for Food Fest as part of SCR activity at 16th February 2024.

Co-ordinator for the talk "Hackathon on Cyber Security" in association with Cyber Crimes Conclave and NEWS 1st channel on 6th February 2024.

FACULTIES CONDUCTION OF /FDP/ CONFERENCE/ TECHNICAL TALK/ PATENTS/ ACHIEVEMENTS

1. Published Research Paper: Sanjeetha R, "Virtual Scribe for Visually Impaired Learners through Interactive Speech based Application", 2nd International Conference on Human Centric Smart Computing (ICHCSC-2023), In: Bhattacharyya, S., Banerjee, J.S., Köppen, M. (eds) Human-Centric Smart Computing. ICHCSC 2023. Smart Innovation, Systems and Technologies, vol 376. Springer, Singapore.

https://doi.org/10.1007/978-981-99-7711-6_10
link:https://link.springer.com/chapter/10.1007/978-981-99-7711-6_10

1. Indian Patent Publication- Mrs. Presilla R, Ms. Asmathunnisa N, Dr.Sanjeetha.R, Dr. K. Ananthapadmanabha, Ms. Kalpitha S Naik, Dr. Sajini G, Dr. Rajeshwari S B, Dr. Jagadish S Kallimani, AUGMENTED REALITY-ENHANCED HUMAN COMPUTER INTERACTION FOR VIRTUAL ENVIRONMENTS, 20244100749 7, Intellectual property India.
2. Indian Patent Publication-Ms. Asmathunnisa N, Mrs. Presilla R, Dr. Sanjeetha R, Dr. Jyothi S, Ms. Kalpitha S Naik, Dr. Rajeshwari S B, Dr. Jagadish S Kallimani, 2024, NATURAL LANGUAGE PROCESSING BASED ALGORITHMS FOR SENTIMENT ANALYSIS IN SOCIAL MEDIA, 202441007534, Intellectual property India.

STUDENTS METRIC ACTIVITIES EVENT CONDUCTED / PARTICIPATIONS

- Ajay C,Archana S R,Ashwini B,Harish D,K Chandrakanth,Keerthi S R,Komal Singh R,Madihally Arun Kumar Tarun,Manoj S Rathod,Namit S M,Raghu R,Riyan Fathima,Sahana N,Sinchana.N.M,Smitha K,Yogini.V, 16 Students of second year CSE(Cyber Security) attended 16 hours boot camp of cyber security to become certified secure computer user on 27,28 April and May 4,5.

- Anagha M Hebbar, Vaishnavi G, K Chandrkanth, Thanish P and Manoj Kumar S, second year students of CSE(Cyber Security) were selected and Participated in final round in Hackathon on Cyber Security by Cyber Crimes Conclave division of NEWS 1st Channel held on 28th and 29th February 2024 at IISC, Bangalore. Students have received the participation certificate.

- Anagha M Hebbar,Vaishnavi G,K Chandrkanth,Thanish P and Manoj Kumar S(One Team),Darshan,Harish D,Manoj S Rathod,Naresh G, Madhihally Arun Kumar Tarun(second Team) Participated in Hackathon on Cyber Security organized at Sambhram Institute of Technology in association with Cyber Crimes Conclave division of NEWS 1st Channel.

- All students of 3rd Semester Participated in Food Fest,organized as part of SCR activity on 16th February 2024.

- K Chandrakanth, second year student of CSE(Cyber Security) completed online course on Networking Basic.

- Second year students completed online course on Basics of Data Structure.

EVENTS/ ACTIVITIES CONDUCTED BY DEPARTMENT

1. On 15 March 2024 Department of CSE (Cyber Security), organized the event "Unleash the power of Virtual Reality" in association with Equal Opportunity Cell and Institution Innovation Council.

2. On 15 March 2024 Department of CSE (Cyber Security),organized the event "Unleash the power of Virtual Reality" in association with Equal Opportunity Cell and Institution Innovation Council.

3. On 28th and 29th February 2024, one team of second year students of CSE(Cyber Security),were selected and participated in final round in Hackathon on Cyber Security by Cyber Crimes Conclave division of NEWS 1st Channel organized at IISC, Bangalore.

4. On 21st February 2024, Internal Evaluation of Hackathon was conducted in Sambhram institute of Technology in association with Cyber Crimes Conclave and NEWS 1st channel.

5. On 16th February 2024 a food walk was Organized as a part of SCR activity.

6. Organized talk for "Hackathon on Cyber Security" in association with Cyber Crimes Conclave and NEWS 1st channel on 6th February 2024.

Fig 1 : Invitation Copy of Event

Fig 2 : Invitation Copy of Event

Fig 3 : Invitation Copy of Event

Fig 4 : Invitation Copy of Event

Fig 5: Mr. Sampath Kumar Delivering the Seminar to Students

Fig 6: Students Experiencing the VR Headset

Fig 7: Mr. Abrar Guiding Students to Use VR Headset

Fig 8: Students of CSE(Cyber Security) presenting their solution in final round of Hackathon at IISC, Bangalore.

Fig 9: Jury members evaluating student teams.

Fig 10: Jury members evaluating student teams.

Fig 11: Faculty Members visiting the stall of Students

Fig 12: Dr. Sanjeetha R HoD, Dept. of CSE(Cyber Security)
delivering welcome address.

Fig 13: Students interacting with speakers and clarifying their doubt.

Fig 14: Talk by Mr. Pavan Thanai, Program Manager, Cyber Crimes Conclave Division, NEWS 1st Channel

Fathima Nandini. G
IV th Sem 1ST23CYO11
CSE - CY

Fathima Nandini. G
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4th Sem CSE -CY

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Da Ra Bendre

CSE[Cyber Security]
Art by
Vinay.H.P

A. P. J.
Abdul Kalam

Art by
Vinay.H.P
CSE[Cyber Security]

ARTIFICIAL INTELLIGENCE & DATA SCIENCE
FEBRURY 2024 – JULY 2024

HOD MESSAGE

Dr. B. Vani
HOD AI&DS

The department of Data Science that focuses on practical applications of collected and analyzed data is Data Science engineering. It is a multidisciplinary field encompassing ComputerScience, computational mathematics, Statistics, and Management. The department has good infrastructure and computing facilities for academic and Research activities. The department has well experienced highly qualified, dedicated faculties to support students in their academics, co-curricular, extracurricular and personals. The department has a strong prominence on innovation and research. Data Science enables companies to efficiently understand gigantic data from multiple sources and derive valuable insights to make smarter data-driven decisions. Data Science is widely used in various industry domains, including marketing, healthcare, finance, banking, policy work, and more. Our institution provides students with a platform to improve their employment skills and also provide opportunities to work on consultancy projects and internships.

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

FEBRUARY 2024-JULY 2024

The AI&DS (Artificial Intelligence and Data Science) Artificial Intelligence and Data Science are one of the many branches of science, engineering, and technology. Engineering in Artificial Intelligence and Data Science is a core technologies like Machine learning, Artificial Intelligence, Data warehouse, Data mining, Scripting language, Product development, Mathematical modelling. This course also gives importance to areas like big data analytics, fuzzy technologies, and artificial neural networks. It helps students in getting ready with skills to perform decisions that are based on data analysis.

Artificial Intelligence (AI) an interdisciplinary science with multiple approaches and Data Science (DS) is the field of study which encompasses various roles such as data analysts, decision scientists and business intelligence developers. As data is the main oil for every application, DS is helpful for students to draw meaningful insights from big data and acquire skill-sets to deal with numerous real time applications in this field. Since last decade, AI and DS witnessed tremendous growth and dramatic breakthrough innovations applied in almost every sector. Recently, new education reforms introduced AI learning right from school education. Successful MNCs like Google, Amazon, Face book, Flipkart, twitter etc. uses various AI and DS techniques to discover patterns and trends in user's data and behaviour. Various banking and financial companies uses AI and DS techniques for risk analysis, share market trends analysis, investment banking.

The department has a strong prominence on innovation and research. Data Science enables companies to efficiently understand gigantic data from multiple sources and derive valuable insights to make smarter data-driven decisions. Data Science is widely used in various industry domains, including marketing, healthcare, finance, banking, policy work, and more. Our institution provides students with a platform to improve their employment skills and also provide opportunities to work on consultancy projects and internships.

VISION
To encourage the inquisitiveness in a student and make him to understand the fundamentals of science to exploit for the development of new technology.

MISSION
To feed the engineer with fine aspects of science which make them to understand, exploit and innovate; leading to the technological advancement of future world.

FACULTY ATTENDED EVENT OFF-ON CAMPUS

1.Dr. B. Vani, HOD, Dept of Artificial intelligence and Data Science, SAIT, has chaired a session on 27th April 2024 and evaluated presentations of research scholars in ICCCP2024 International Conference on "Global Convergence in Technology, Entrepreneurship, Computing and value Engineering principles and Practices" held in Sapthagiri college of Engineering Bengaluru.

2.Dr. B. Vani HOD-AI&DS ,Prof Mamatha M , Prof Mamatha B .L attended Women's Day celebration on 11/3/24 held on SAIT, Bengaluru

3.Dr.Vani B , Dr. Mamatha M and Prof Mamatha B L attended online training based on minimize energy usage, alternative energy solution, adopting solar energy solution conducted by Energy Swaraj Foundation

SKILL DEVELOPMENT FOR STUDENTS

1.Five Days Skill Development Program based on "AZURE ANALYTIC FOR DATA SCIENCE" for 4th SEM students conducted by Artificial Intelligence and Data Science Branch held on Date 22-07-2024 to 26-07-2024 in SAIT.

BRIEF PROFILE OF THE RESOURCE PERSONS

Mr. Vishal Kumar is a dynamic and accomplished Multi-skilled Consultant possesses a proven record of accomplishment in Data Analysis, Mentoring, directing, and implementing a broad range of strategic, data-driven projects from conception through launch.

Readily translate business strategies into actionable insights and profitable returns for clients. Facilitate cross-functionally to build consensus and ensure plans meet all milestones. He is having 3+ year experience in Data Analytics and done Projects in: Banks, Educational Institutes, Data Analysis & Visualization, Management, and many Clients Served in: India.

EVENT PHOTO

PARTICIPANT PHOTOS

STUDENTS ATTENDED ONLINE WORKSHOP

MICROSOFT CERTIFICATES GOT BY STUDENTS FOR CLEARING EXAM BASED ON DATA ANALYTICS CONDUCTED BY AZURE DATA FUNDAMENTALS

1.Adith N K 4th SEM student got certificate of Appreciation on successful completion of the course conducted by TCS Master Craft Data Plus Overview Course.

2.Adithya GT 2nd SEM student got certificate for Attending the GenerativeAI Mega Workshop by Mr Rahul Attuluri, CEO, NxtWave on "Bulding a Generative AI Application" conducted exclusively for CCBP 4.0 Academy

3.Adithya GT 2nd SEM student got certificate for successfully Building and Deploying an Application on Amazon Web Services hosted by Mr. Revanth Konakanchi Head of Engineering Nxtwave conducted exclusively for CCBP 4.0 Academy student

STUDENT CORNER

Social Connect and Responsibility (SCR) , Activities done by out 4th SEM Artificial Intelligence and Data Science Branch Students in Academic year 2023-2034.

Students visited Historical places to know about history of the place, people culture, Dressing, Place Famous For. Student Visited Agriculture Field to Know about Organic Farming.
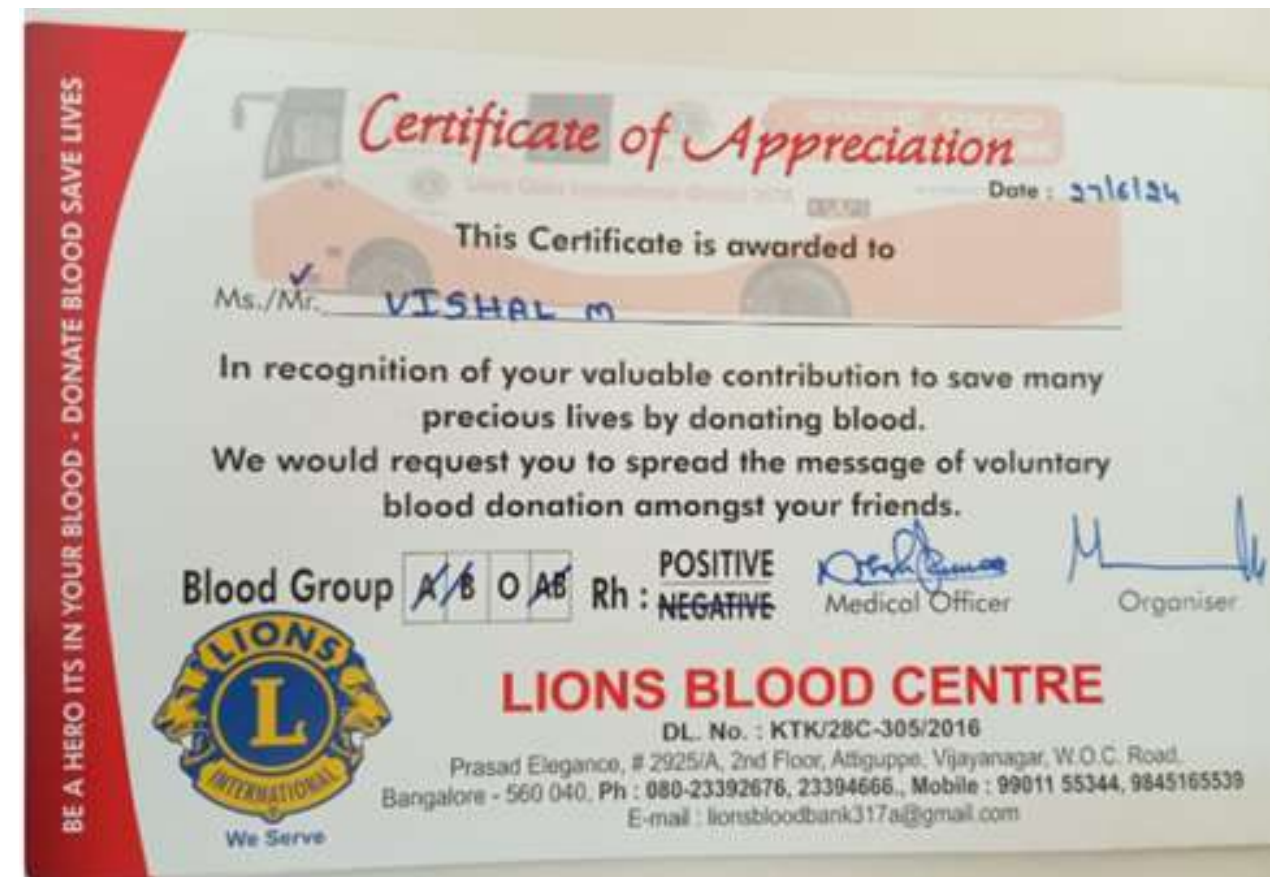
NSS Activities Done by 4th SEM AI&DS Branch Students in Academic year 2023-2024

STUDENTS PARTICIPATED IN BLOOD DONATION CAMP

VISHAL M, ADITHYA TRIKAPADI, & SATHVIP P 4th SEM AI&DS Branch Students participated in BLOOD DONATION CAMP conducted by LION BLOOD CENTER in Sambhram Institute of Technology, Banglore.

STUDENTS PARTICIPATED IN HACKATHON

Ms. SANYUKTA DAS, 4th SEM from AI&DS Department participated in the Hackathon Competition organized by Bangalore Institute of Technology on 6th & 7th July 2024.

Ms. Kavana S, 4th SEM from AI&DS Department participated in the 8 hour HACK-A-IDEA conducted on 18th July 2024 at ATRIA Institute of Technology

Ms. Kavana S, 4th SEM from AI&DS Department participated in the Hackathon Competition organized by Bangalore Institute of Technology on 6th & 7th July 2024.

Ms. SANYUKTA DAS, 4th SEM from AI&DS Department participated in the 8 hour HACK-A-IDEA conducted on 18th July 2024 at ATRIA Institute of Technology.

Ms. Keerthana C, 4th SEM from AI&DS Department participated in the Hackathon Competition organized by Bangalore Institute of Technology on 6th & 7th July 2024.

Ms. Mounika M, 4th SEM from AI&DS Department participated in "CyberQuest" 24 hours Hackathon held from 20th July 2024 to 21st July organized by the Department of AI&ML, Dayananda Sagar Academy of Technology and Management

Ms. Keerthana C, 4th SEM from AI&DS Department participated in the 8 hour HACK-A-IDEA conducted on 18th July 2024 at ATRIA Institute of Technology

Mr., Mobassir Raza 4th SEM from AI&DS Department participated in "CyberQuest" 24 hours Hackathon held from 20th July 2024 to 21st July organized by the Department of AI&ML, Dayananda Sagar Academy of Technology and Management

Ms. Nishmitha, 4th SEM from AI&DS Department participated in "CyberQuest" 24 hours Hackathon held from 20th July 2024 to 21st July organized by the Department of AI&ML, Dayananda Sagar Academy of Technology and Management

Mr., Sayan Das 4th SEM from AI&DS Department participated in "CyberQuest" 24 hours Hackathon held from 20th July 2024 to 21st July organized by the Department of AI&ML, Dayananda Sagar Academy of Technology and Management

Ms. BINDHU S, 4th SEM from AI&DS Department participated in the Hackathon Competition organized by Bangalore Institute of Technology on 6th & 7th July 2024.

Ms. Sakshi, 4th SEM from AI&DS Department participated in "CyberQuest" 24 hours Hackathon held from 20th July 2024 to 21st July organized by the Department of AI&ML, Dayananda Sagar Academy of Technology and Management
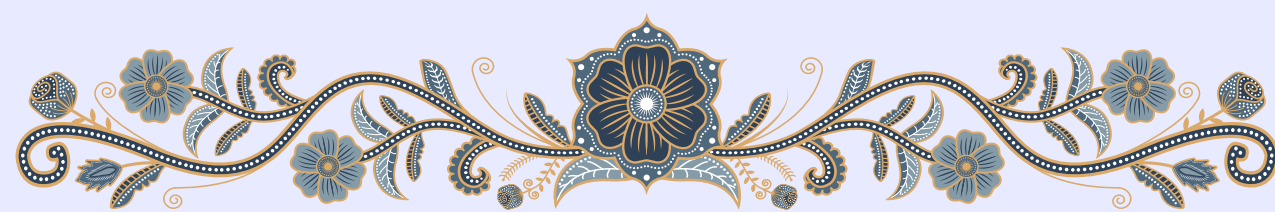
STUDENTS PARTICIPANTS IN SPORTS

Ms. SANYUKTA DAS, 4th SEM from AI&DS Department participated in the Hackathon Competition organized by Bangalore Institute of Technology on 6th & 7th July 2024.

Sambhram Institute of Technology

Department Of ISE

Vision

•To impart high quality professional training with sound footing on basic principles of Information Technology and to promote cutting edge research in the fast changing field. To make our students technologically superior and ethically strong, who in turn contribute to the advancement of society and mankind

Mission

To evolve as a Centre of Excellence by offering technical education and research opportunities of the highest standards, fostering the holistic development of individuals, and facilitating their transformation into well-rounded, capable contributors to society.

Short Term Goals

•To strive towards Institute-Industry interaction
•To encourage students and staff to pursue research.
•To develop both inner and outer personality of every individual Encouraging faculties for FDP to improve the quality of teaching-learning process.
•Motivating students to get university semester ranks
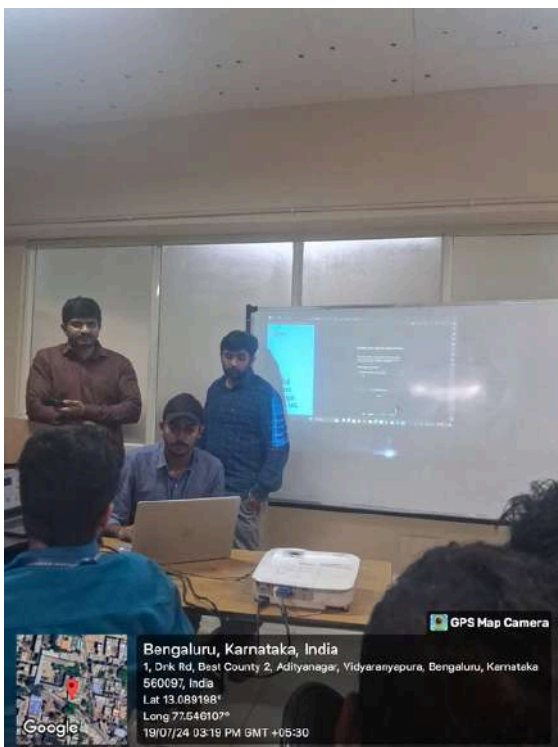
Long Term Goals

To impart quality education to our students, to make them to face the challenges in professional life and to satisfy the needs of the industries

Empowering Students Through Skill Development

Advanced Java: Strengthening programming skills with in-depth concepts like multithreading, JDBC, servlets, and frameworks.

Department of ISE is committed to equipping students with industry-relevant skills through various Skill Development Programs. Recently, we successfully conducted workshops and training sessions on Advanced Java, Robotic Process Automation (RPA), and Full Stack Development, helping students enhance their technical expertise and stay ahead in the evolving tech landscape.

Full Stack Development: Mastering front-end and back-end technologies to build dynamic and responsive web applications.

Robotic Process Automation (RPA): Learning automation techniques to streamline repetitive tasks using leading RPA tools.

Empowering Students Through Skill Development

The Department of Information Science and Engineering recently organized a Skill Development Program on Data Analytics in collaboration with Mphasis ICT Academy. This program aimed to equip students with industry-relevant knowledge and hands-on experience in the rapidly growing field of data analytics.

The sessions covered key concepts such as data preprocessing, exploratory data analysis, statistical modeling, data visualization, and machine learning techniques. Industry experts from Mphasis ICT Academy provided insights into real-world applications of data analytics across various sectors, including finance, healthcare, and business intelligence.

Students actively engaged in practical exercises and case studies, working with popular data analytics tools like Python, SQL, and Power BI. The program emphasized the importance of data-driven decision-making and its role in solving complex business problems.

This initiative provided participants with valuable exposure to industry best practices, enhancing their analytical and problem-solving skills. The collaboration with Mphasis ICT Academy not only strengthened students' technical competencies but also prepared them for future career opportunities in data science and analytics.

Exploring Space Technology: A Visit to U R Rao Satellite Centre

As part of an initiative by the Information Science and Engineering (ISE) Department, our students had the incredible opportunity to visit the U R Rao Satellite Centre (URSC) in Bangalore, one of India's premier space research institutions under ISRO. This educational field trip provided a firsthand experience of satellite development, space research, and advanced technological innovations.

During the visit, students were introduced to various aspects of satellite engineering, mission planning, and the crucial role of URSC in India's space missions. Experts at the centre explained the intricate processes behind satellite design, assembly, integration, and testing, giving students deep insights into the world of aerospace technology.

This visit was a great learning experience, bridging theoretical knowledge with practical applications in space research. It inspired students to explore career opportunities in the field of space technology and innovation.

We extend our gratitude to ISRO and U R Rao Satellite Centre for their hospitality and the valuable knowledge shared. Special thanks to the faculty members and organizers from the ISE Department for making this initiative possible.

Innovating Beyond Limits: Our Hackathon Success Story

Our students recently showcased their exceptional technical skills and problem-solving abilities by participating in multiple hackathons organized by esteemed institutions. Their dedication, teamwork, and creativity led to remarkable achievements, bringing pride to our institution

We are thrilled to announce that our students received certificates of recognition from RR Institute of Technology, Nitte Institute of Technology, and Dayananda Sagar Institute of Technology for their outstanding performances in various hackathon competitions. These events provided a great platform to innovate, collaborate, and learn from industry experts and fellow tech enthusiasts.

Hackathons are not just about competition; they are about learning, experimenting, and developing solutions that can make an impact. Our students tackled real-world challenges, built innovative projects, and demonstrated their ability to think critically under pressure.

We congratulate all the participants for their efforts and achievements. Their success in these hackathons is a testament to their hard work, passion for technology, and commitment to excellence. We look forward to seeing more students take on such opportunities and continue to make our institution proud
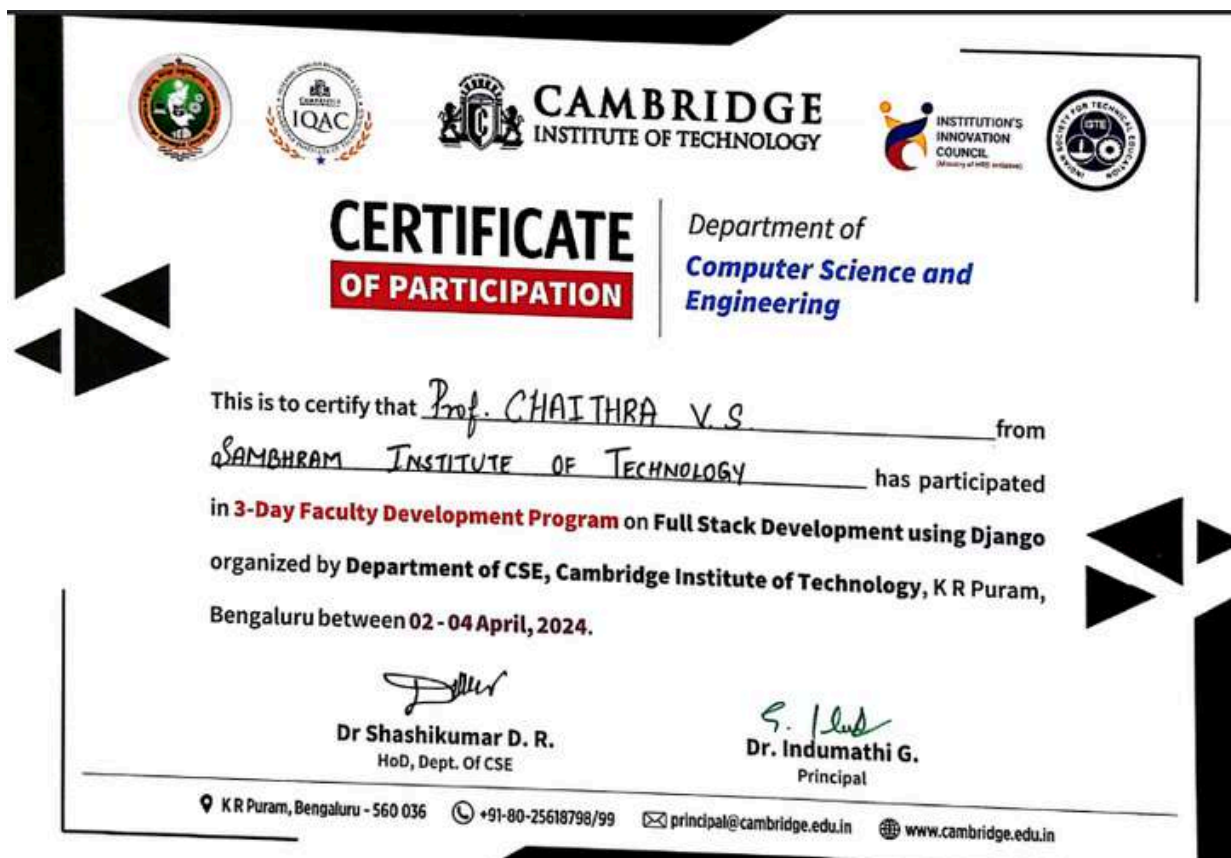
Faculty Excellence: Prof. Chaitra V S

Prof. Chaitra V S has successfully completed the Faculty Development Program (FDP) on Full Stack Development using Django, organized by the Department of Computer Science and Engineering, Cambridge Institute of Technology. This intensive program aimed to enhance faculty expertise in modern web development, covering key aspects of backend development with Django, frontend integration, database management, and deployment strategies

Through this FDP, Prof. Chaitra V S gained hands-on experience in building dynamic and scalable web applications, strengthening her proficiency in Python-based frameworks, RESTful API development, and modern software engineering practices. Her participation in this program reflects a commitment to continuous learning and adopting industry-relevant technologies, which will contribute significantly to academic instruction and student mentorship.

CAMBRIDGE
INSTITUTE OF TECHNOLOGY

CERTIFICATE
OF PARTICIPATION

Department of
Computer Science and Engineering

This is to certify that *Prof. CHAITHRA V. S* from *SAMBHRAM INSTITUTE OF TECHNOLOGY* has participated in **3-Day Faculty Development Program** on **Full Stack Development using Django** organized by **Department of CSE, Cambridge Institute of Technology**, K R Puram, Bengaluru between **02 - 04 April, 2024**.

Dr Shashikumar D. R.
HoD, Dept. Of CSE

Dr. Indumathi G.
Principal

K R Puram, Bengaluru - 560 036   +91-80-25618798/99   principal@cambridge.edu.in   www.cambridge.edu.in

Industrial Visit to Karnataka State Remote Sensing Application Center

The 6th-semester students of the Department of Information Science and Engineering recently visited the Karnataka State Remote Sensing Application Centre (KSRSAC) as part of their industrial exposure program. This visit provided them with valuable insights into the applications of remote sensing, GIS (Geographic Information System), and satellite-based technologies in various fields.

During the visit, students were introduced to the cutting-edge techniques used in geospatial analysis, including satellite image processing, land-use mapping, and disaster management applications. Experts from KSRSAC demonstrated how spatial data is collected, processed, and analyzed to aid in urban planning, environmental monitoring, and infrastructure development.

Bengaluru, Karnataka, India
Major Sandeep Unnikrishnan Road, Doddabettahalli, Vidyaranyapura Post, Vignana Kendra, Bengaluru, Karnataka 560097, India
Lat 13.093729°
Long 77.561409°
19/06/24 03:19 PM GMT +05:30

The session also highlighted the role of artificial intelligence and machine learning in geospatial studies, showcasing real-world projects that leverage data science for effective decision-making. Students had the opportunity to interact with professionals, gaining a deeper understanding of how remote sensing technologies contribute to governance, agriculture, water resource management, and climate studies.

Congratulations to Our Students on Their Prestigious Placements

The Department of Information Science and Engineering takes immense pride in congratulating our students on their remarkable achievements in securing placements at esteemed organizations.

- **Mr. Ali Akbar P** has been placed at **G2 Risk Solutions** as an Associate Consultant. His dedication and expertise in risk management and technology have earned him this prestigious opportunity.

- **Ms. Priyanka S** has secured a position at **Tata Consultancy Services (TCS)** as an Assistant Systems Engineer Trainee, reflecting her strong technical skills and problem-solving abilities.

- **Ms. Divya** has been placed at **Bharat Electronics Limited (BEL**), a prestigious public-sector enterprise, recognizing her competence in engineering and innovation.

Their achievements serve as an inspiration to fellow students, showcasing the importance of hard work, perseverance, and continuous learning. We wish them great success in their professional journeys and future endeavours.

NEWSLETTER FEBRUARY 2024 TO JULY 2024 DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Recent achievements include successful student placements in top-tier companies, participation in national-level hackathons, and the publication of high-impact research papers. The department also organizes technical workshops, guest lectures, and hands-on training sessions to bridge the gap between academics and industry.

The Electronics and Communication Engineering (ECE) Department at Sambhram Institute of Technology continues to excel in academic and research endeavors, fostering innovation and technical excellence. With a strong focus on cutting-edge technologies such as IoT, Artificial Intelligence, Wireless Networks, and VLSI Design, our faculty and students actively engage in groundbreaking projects and industry collaborations.

With a commitment to shaping future engineers, the ECE Department at Sambhram Institute of Technology remains a hub of innovation, preparing students for the ever-evolving world of electronics and communication.

RESEARCH ACTIVITY DETAILS
PhD Scholars updates

- Prof. Sowndeswari is qualified for doctoral candidacy stage
- Prof. Anupama Cleared the Ph.D Entrance under VTU
- Prof. Khamar Unnisa Cleared the Ph.D Entrance in REVA University

Dr. Ravishankar CV HOD ECE

RESEARCH PAPER/PATENT PUBLICATION

Solar Power Based Charging Station For Electric Vehicles Dr Shreesha Kalkoor M Ece International Journal Of Engineering Technology Research & Management 2024 Issn: 2456:9348 Paper Publication Enhancing Security In Wireless Sensor Networks: A Fusion Of Deep Learning And Energy Efficient Routing S.Sowndeswari ECE Journal Of Intelligent And Fuzzy Systems 2024 ISSN 1875-8967 Paper Publication

Recent achievements include successful student placements in top-tier companies, participation in national-level hackathons, and the publication of high-impact research papers.

EVENTS CONDUCTED BY ECE DEPARTMENT

February 2024

☛ An "Advanced IT Skill Training on Data Analytics" program was held from 9th to 29th February, coordinated under the ICT Academy, with 60 participants.

☛ "World Radio Day" was celebrated on 23rd February in association with IETE, attended by 60 participants.

Prof.Sowndeswari , Prof.Anupama , Prof.Khamer attended Open day 2024 on February 24, 2024 with III semester students

Open day event participation

March 2024

Student Exchange program conducted on 5-3-2024 ,where students from Uzbekisthan visited ECE department , Event coordinated by Prof.Anupama , Prof. Sowndeswari and executed by Prof.Nithiya ,Prof.Bharath & prof.Khamer , Prof.Natraj & Dr.Shreesha Kalkoor

STUDENT EXCHANGE PROGRAM CONDUCTED ON 5-3-2024

April 2024

"Ambedkar Jayanthi" was observed on 8th April, coordinated by Prof. Anupama Hongal, involving 20 students and 10 faculty members.

May 2024

Pratira 2024 - Internal Project Exhibition and Competition" took place on 8th May with 190 participants. Dr. Shreesha Kalkoor M served as a jury member and was part of the inaugural committee, while Prof. Nithiya managed registration and certificate distribution. Prof. Anupama Hongal and Prof. Sowndeswari also served as program coordinators.

Dr.Shree Rangaraju Addressing the PRATIRA 2024 event

- "World Telecommunication Day" was observed on 17th May, attracting 40 students and 10 faculty members. The event was coordinated by Profs. Nataraja PR and Bharath, with a keynote speech by Dr. K.V. Prasad.

INVITATION COPY FOR THE EVENT

DIGNITORIES ON THE DIAS

Graduation day conducted on May 31st for 2020 to 2024 batch

GRADUATION DAY 2024

Awarding the B.E. course completion certificate To Final year students during the Graduation day - 2024 at Sambhram Institute of Technology, Bangalore on 31-05-2024.

June 2024

- A value-added course on "Robotics and Applications" was offered to VI semester students on 18th and 19th June, coordinated by Profs. Sowndeswari and Anupama Hongal. Resource persons included Mr. Mahesh Deginal and Mr. Harish N from Karunadu Technologies Pvt Ltd.

Students Attending the Robotics workshop

- "Yoganjali 2024 - International Yoga Day" was celebrated on 21st June, coordinated by the NSS unit and -

- Women Cell at SaIT, with participation from ECE students and faculty.

Yoganjali 2024

- An FDP on "Analog and Digital Design on Cadence Tool" was held on 27th and 28th June, in association with the IEEE student chapter and Entuple Technologies, with 10 faculty members and 30 students. Profs. Khamer Unnisa and Srivani coordinated the event.

FDP on "Analog and Digital Design on Cadence Tool" was held on 27th and 28th June

Dr.C.V Ravishankar ECE HOD addressing the students

- "World Environment Day" was observed on 5th June, involving all ECE faculty and II semester students. The event was executed by IIC, and EWB, with Shri. Virappa from CPRI as the resource person.

ECE department faculties with HOD Dr.Ravishankar CV on World Environment Day"

July 2024

"Youth Skills Day" was observed on 15th July, engaging students from IV and VI semesters.

- A session titled "Opportunities Abroad" was conducted by the International Relations Cell on 15th and 16th July, led by Mr.Kerron, founder and CEO of Edukerron International, at 11:15 AM.

- A technical talk titled "The Lightning Harm" was held on 16th July, coordinated by Profs. Abhishek D.G. and Srivani.

Prof. George Armstrong Addressing the Gathering

- A seminar on COMSOL RF Module for antenna design and electromagnetic simulation was held on 30th July in the ECE seminar hall at 2:00 PM for all ECE faculties.

- A technical talk on "Fighting for Earth or Be Neutral" was held on 15th July 2024, coordinated by Prof. Abhishek D. G and Prof. Srivani C, with all ECE faculty members participating in the session.

Invitation for Technical Talk on "Fighting for Earth or be Neutral"

EVENTS PARTICIPATION DETAILS /FDP'S/SDP/WEBINAR

February 2024:

- **Innovation Fair - 2024** (22/02/24 at GMPS Bagaluru, Karnataka and 26/02/24 at KPS Hebbal Bangalore) – S Sowndeswari will participate in both events organized by the Agastya International Foundation.

- **ANVESHANA Project Competition** (29/02/24) – K. Nithiya will guide the project titled "Mindwheels powered EEG."

- **Naari Uthaan 2024**: Women's Day Feature Article & Anthology Submission (25/02/24) – K. Nithiya will submit a story to Storyspin publications.

- **Food Walk – ECE** (16/02/23) – K. Nithiya, along with coordinators Prof. Anupama Hongal and Prof. Sowndeswari, will organize the event.
- **Students Mental Health Club** (20/02/24) Prof. Anupama Hongal will coordinate the mental health initiative.

March 2024:

- **Risk Management Requirements & Implementation i**n Laboratories (27/03/24) – Shahina, Sumamma B.N., and Rakshitha C. will participate in the training session organized by the Quality Council of India.
- **Swachh Bharat Mission Grameen Online Event** (19/03/24) – Students including Akash, Manoj, Burrhunndin, Trisha, Moulya, Rahul, Sachin, Shashank, and Tejas from the 8th semester will participate and get certified.
- **Student Exchange Program for Uzbekistan Students** (09/03/24) – Prof. Anupama Hongal and Prof. Srivani will oversee the food fest for exchange students.
- **World Water Day Awareness Quiz** (13/03/24) – Prof. K. Nithiya will coordinate a quiz, with participation from students guided by her, including Akash, Manoj, Burrhunndin, Trisha, Moulya, Rahul, Sachin, Shashank, and Tejas.

- **Data Privacy Awareness Quiz** (10/03/24) – Prof. K. Nithiya will lead a session for students certified by DSCI-My Government.

April 2024:

- **AISHE Portal Update** (02/04/24) – Mrs. Ramya will update faculty details for the college.
- **LEO Club Meeting Regarding NAAC Activities** (02/04/24) – Prof. Natraj will attend the meeting with NSS coordinators and other criteria key indicators.
- **Lecture Series on Universal Human Values** (20/04/24) – V semester students will attend the lecture by Prof. Anil, presided over by Prof. S Vidyashankar, Vice Chancellor of VTU.

May 2024:

- **PRATIRA 2024 - Internal Collegiate Project Exhibition** (08/05/24) – The 8th-semester students will showcase projects, guided by various faculty members including Dr. C. Ravishankar, Dr. Shreesha Kalkoor, Prof. Sowndeswari, and others.
- **World Telecommunication Day** (17/05/24) – Faculty members, including Dr. C. Ravishankar, Prof. Sowndeswari, and Prof. Nithiya, will participate in this event.

- **Value-Added Course on Robotics and Its Applications** (18/06/24 to 19/06/24) – Coordinated by Prof. Sowdeswari and Prof. Anupama Hongal, with Mrs. Shahina and Mrs. Sumamma B.N. participating, featuring resource persons from Karunadu Technologies Pvt. Ltd.

- **FDP on Analog and Digital Design on Cadence Tool** (27/06/24 to 28/06/24) – Several faculty members, including Mrs. Shahina, Mrs. Sumamma B.N., Prof. Nithiya, Prof. Sowdeswari, Prof. Anupama Hongal, and others, will participate, with technical support from Prof. Bharath S.

- **International Day Against Drug Abuse & Illicit Trafficking** (28/06/24) – Prof. Bharath S will coordinate this awareness event.

- World Environment Day Celebration (05/06/24) – All ECE faculty members and II-semester students will participate in this event, coordinated by the Civil Department and IIC & EWB, with a session led by Shri. Virappa.

- **Talk on "4th Anniversary of National Education Policy-2020"** (27/07/24) – Dr. Ravishankar C.V. will be the resource person, coordinated by Prof. Abhishek D.G. and other faculty members, including Mr. Chandan K, Ms. Rohini B M, and Ms. Sakshi K J.

- **Technical Talk on "Fighting for Earth or Be Neutral"** (15/07/24) – Prof. Wng. Cmdr. George Armstrong will deliver the talk, coordinated by Prof. Abhishek D.G. and Prof. Srivani C.

- **Technical Talk on "The Lightning Harm"** (16/07/24) – Prof. George Armstrong will present this talk, coordinated by the same faculty members.

- **Sachin** from VIII semester ECE got selected by Byju's based on training and shortlisted byMphasis Employability skill training at **5.2LPA**
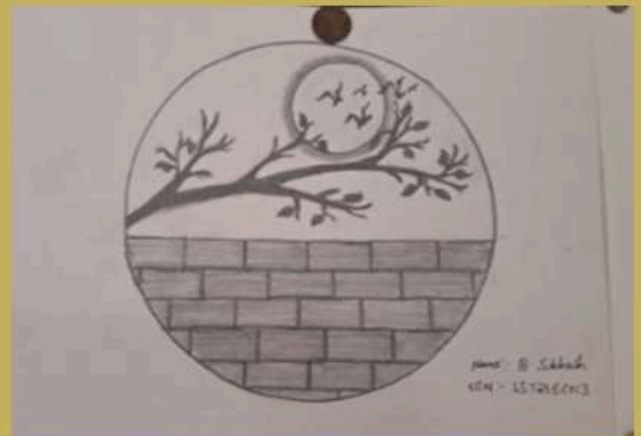
ARTICLES /ART WORKS

Sketches done by VII semester ECE students

Art by Chethan kumar VII semester

As there is a popular quote "Every artist was first an amateur." – Ralph Waldo Emerson

DEPARTMENT OF CIVIL ENGINEERING

Civil engineering is a field of engineering that plays a vital role in shaping and enhancing the world we live in. It involves the design, construction, and maintenance of infrastructure and structures, ranging from bridges, roads, and buildings to dams, airports, and water supply systems.

Civil engineering is of immense significance as it forms the backbone of modern society, providing the essential infrastructure that supports economic, social, and environmental development. It ensures the safety and functionality of structures, contributing to the well-being of communities and the efficient movement of people and goods.

Additionally, civil engineers are at the forefront of addressing contemporary challenges, such as sustainable and environmentally friendly construction, disaster resilience, and urban planning to accommodate growing populations. With its multidisciplinary nature and continuous evolution, civil engineering remains a cornerstone of modern civilization, making it a field of great importance and impact.

Civil engineering is a dynamic field that continually adapts to the changing needs of society.

The department organizes seminars, workshops & industrial visits for the benefit of students and faculty which would exposure of the recent trend in civil engineering. The department has been imparting quality education to make technological advancement and industrial requirements. The infrastructure available in the department facilitates students to develop their skill and knowledge within the framework of curriculum prescribed by the Visvesvaraya Technology University. This has been made possible due to qualified and dedicated faculty. The department has Civil Engineering Consultancy cell which actively involves in consultancy works from industry and government.

MESSAGE FROM HOD

The need for professionals with of Civil engineering is always on the rise.

FEBRUARY 2024 TO JULY 2024

Those with problem solving skills are the ones in demand. Professionals with these skills are sure to land up with successful career in the years to come. The department of Civil Engineering of the SaIT is providing the opportunity for the students to develop a firm foundation in Science and Technology. I believe that the opportunities for the students in the campus should lead to an appreciation of the holistic development of an individual. And finally, the objective is to encourage our students for having passion towards the course and desire to continue to learn.

-Dr.Mallikarjun HOD Civil

ABOUT THE DEPARTMENT

The department was setup in the year 2009-10 with under graduate and 2014-15 with post graduate programs. The department offers a full time B.E degree course in Civil Engineering. The department organizes seminars, workshops & industrial visits for the benefit of students and faculty which would exposure of the recent trend in civil engineering. The department has been imparting quality education to make technological advancement and industrial requirements. The infrastructure available in the department facilitates students to develop their skill and knowledge within the framework of curriculum prescribed by the Visvesvaraya Technology University. This has been made possible due to qualified and dedicated faculty. The department has Civil Engineering Consultancy cell which actively involves in consultancy works from industry and government.

VISION & MISSION STATEMENT

VISION

To become a school of excellence that brings out civil engineers with high technical competencies and promotes high-end research to meet the current and future challenges in civil engineering.

MISSION

The mission of the department of civil engineering is to develop highly competent professionals, preparing them for entry-level positions in civil engineering, further study in graduate school, life-long learning, and societal leadership. The department is dedicated to providing a dynamic learning environment that emphasizes open-ended design, problem-solving skills, team work, communication, and leadership skills.

Message from Editorial Board

As the Editor of a Civil Department newsletter, Please let me start by conveying my regard to the entire civil engineering faculty members who supported me for making this happen. This News-letter mirrors the vision and mission of Civil Engineering Department. It also highlights the events activities and achievements. I do hope that this newsletter will encourage many more students to come forward and express their talent and creativity. In order to keep the readers widely interested and updated we will

off course continue the tradition of communicating the significant events and activities of Civil Department. I would like to thank (HOD, Civil) for the continuous Motivation, inputs and time to time Feedback for the final draft.

EDITORIAL BOARD

FACULTY: Mrs.Pratibha Kengannanavar (ASSISTANT PROFESSOR)

STUDENT: DDEVARJ REDDY NEETISHKUMAR

Department Faculties Details / Ph.D updates

1. Prof. Vasantha D (Completed course work)

2. Prof. Monica. M. S (Completed course work)

6. Prof. Priyanka desai

3. Dr. Akshata. Mulgund

4. Prof. Pratibha Kengannanavar

5. Prof. Ashwini Ingale

PHD COMPLETED FACULTY DETAILS

1. Prof. Akshata A Mulgund awarded with PhD on 18th July 2024 in the 24th annual convocation held at VTU, Belagavi.

Prof Akshata A Mulgund (Completed Ph D)
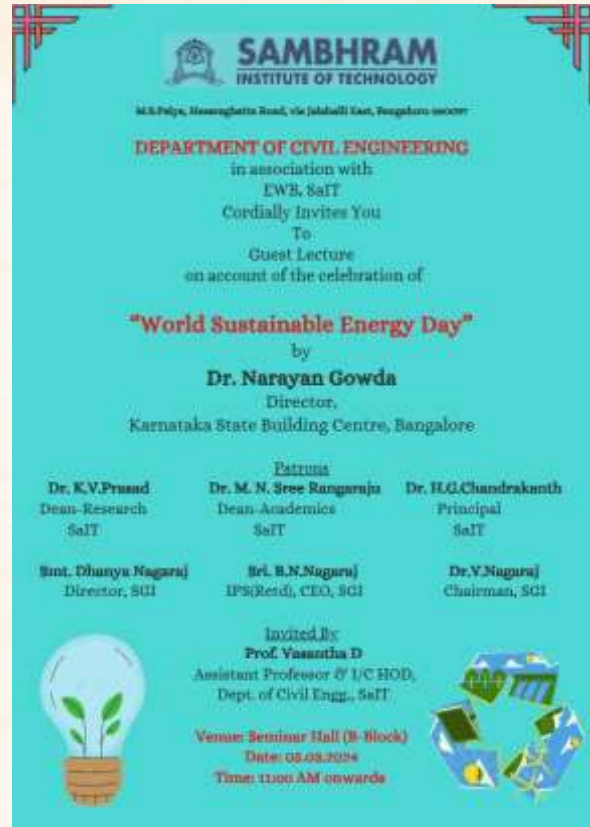
PARTICIPATION OF STUDENT AND THE FACULTY IN ACADEMICS\SPORTS

1. World Sustainable Energy Day

This day is celebrated on 05.03.2024, in Conference Hall and all faculties and students attended the event.

2. World Environment Day

The world environment day was celebrated by civil engineering department on June 2024, the chief guest was Shri Virappa V Pattanshetti. He spoke about the Environmental issues going on in the country. He told the students to plant more trees in

their vicinities. Prof.Monica M S from our department co ordinate the event, all other faculties and students participated in the event.

old tank project, water supply and Town planning. This camp was organized by Faculty coordinators Mr.Vasantha D, Mrs Monica M S

3. Survey Camp (Mini Project)

The 6th semester students of Civil engineering visited Ambabhavani temple road, M S Palya
.This helps the students to become aware the practical application of different projects such as New tank project, Highway project,

RESOURCES

FACULTIES PARTICIPATION IN THE EVENTS (FDP/WORK SHOP/CONFERENCE etc..)

1. Prof. Vasantha D attended one week national level FDP on Research and Innovation in Civil Engineering at Dr. D Y Patil Institute of Technology, Pune from 05.02.2024 to 09.02.2024.

2. Prof. Vasantha D attended 5 days FDP on "2nd series of Geotechnical Engineering-Practices and its sustainable development-2024" at Ballari Institute of Technology and Management from 18.06.2024 to 22.06.2024.

3. Prof. Monica M S attended 5 days FDP on "2nd series of Geotechnical Engineering-Practices and its sustainable development-2024" at Ballari Institute of Technology and Management from 18.06.2024 to 22.06.2024.

4. Dr. Akshata. Mulgund attended 5 days FDP on "2nd series of Geotechnical Engineering-Practices and its sustainable development-
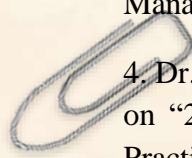
PUBLICATIONS BY THE FACULTIES

1.Akshata A Mulgund, Dr Dilip K Kulkarni published a paper titled "An assessment of the durability properties of ferrocement based polymer modified silica fume concrete" Journal of South West Jiaotong University , e-ISSN - 0258-2724 , Vol 58, December 2023. Scopus indexed Q2 Journal.

STUDENT PLACEMENT TRAINING SUMMARY

Placement training program is scheduled to begin from October 26th 2023 onwards.

1. ExcelREdtech Pvt Ltd conducted placements on December 19, 2023, hiring 10 students with a package of 4 LPA.
2. Neeyamo conducted placements on December 21st, 2023, hiring 10 students with a package of 4 LPA.
3. A placement training program is scheduled from October to November, with several companies conducting placement activities.
4. Delta X conducted placements on October 13, 2023, hiring 10 students with a package of 3 LPA.
5. Salesforce Workshop is scheduled on November 25th, where 10 students are expected to participate with a package of 3.3 LPA.
6. Juspay coding test is scheduled for November 14th, aiming to hire 10 students with a package of 3.6 LPA.

PLACED STUDENT DETAILS

Deekshitha H (1ST20CV001), Dhanush (1ST20CV002), Ahmed Fakhreldin Osman Mohamed (1ST20CV004), Bindushree M (1ST21CV400) from VIII semester civil engineering got placed by "Oraiyan Group

Developers and Builders" as property consultant with a package of 2.5-7LPA.

Deekshitha H (Property Consultant)

Dhanush (Property Consultant)

Ahmed Fakhreldin Osman Mohamed (Property Consultant)

Bindushree M (Property Consultant)

DEPARTMENT OF MECHANICAL ENGINEERING

FEB-2024 TO JULY-2024

The Department of Mechanical Engineering was established on 2002 and has an intake of 60. A research and development center was started in the Department in 2008. The Department has conducted a good number of seminars and workshops on different topics to provide exposure to various domains of engineering and technology. The Department has provided industry academia interactions to the faculties and students. The Department has also signed MOUs with Peenya Industrial Association, National Design Research Forum, and The Energy Resources Institute [TERI] for taking up joint program including student project work and research activities. The Department is having good infrastructure facilities to pursue for R& D activities. The Department has got six doctoral degrees faculty members in teaching and good numbers of faculties are perusing research work leading to Ph.D.The Visvesvaraya Technological University has awarded eight PhDs from the Mechanical Research Center and another 10 scholars are pursuing for PhD from our center. The research activities being done in the Department is getting translated to publications in peer reviewed journals.

FACULTIES EVENT'S ORGANIZED / PIONEERED / PARTCIPATION HIGHLIGHTS

Dr. PADMINI B V

➤ 11th march 2024 co-ordinated the women's day activity, main coordinator

➤ Main coordinators to take the students and faculty to ISJCON, RAJ, Bangalore ON 13TH feb 2024

Prof. JAGADEESH H

1. Attended five days faculty development program on "3D printing and additive manufacturing technology" conducted by department of Robotics and Automation and Mechanical Engineering, RRCE, Bengaluru from 26th February to 1st March 2024 in association with National Centre for Additive Manufacturing (NCAM).

Dr MANJUNATH B B

➤ Attended A One Week FDP On "AI IMPLEMENTATION IN ELECTRIC VEHICLES" In School of Engineering and Technology From 22nd April 2024 To 27th April 2024 At SOET , Bangalore

Published a paper on **"OPTIMIZATION OF SPECIFIC FUEL CONSUMPTION AND EMISSIONS FOR DIESEL**

ENGINE USING TAGUCHI EXPERIMENTS" Industrial Engineering Journal ISSN: 0970-2555 Volume : 53, Issue 4, No. 4, April : 2024

Dr. Manjunath B B is appointed as **BOE Member** for Visvesvaraya Technological University for Mechanical Engineering Department for this academic year 2023-24.

Guest lecture

Name: Theja
Current designation: CFD Analyst, FEV India
Title: Modelling & Simulation
Date: 10/01 /2024
Time: 10.00 am
Venue: Seminar hall, Mechanical Engineering Department

Take away from the program: The participants comprising of students and staff of the Civil and Mechanical engineering departments had a treat of technical inputs as Mr. Theja explained the

differences and the processes of modeling and simulation with many practical examples and case studies. The interactive session could have far reaching impact on the thinking process in the students kindling in them the curiosity for simulating many practical and theoretical situations.

Industrial visit

he students of 6th semester and 8th semester BE (affiliated to VTU) of the Mechanical Engineering Department of SaIT made an industrial visit to M/S **JOHN CRANE SEALING SYSYTEMS INDIA** (located in Peenya industrial area Bengaluru-560058) on **21-05-2024**, after obtaining the premises from the company to visit the industry.

Technical Talk on Innovation and Entrepreneurship delivered by Dr. P.Sampathkumaran, Ex Director CPRI, Date: 29.10.2024.

Technical Talk on Career opportunities in NDT delivered by Mr. Shashidhar Pallakki, Director and CEO, Pallakki NDT PVT LTD: 12-11-2024.

Department of Mechanical Engineering Conducted Industrial Visit for 3rd and 7th sem students on 24/12/2024 to R R Forgings Pvt. Ltd., Peenya III Phase, Bengaluru-560058
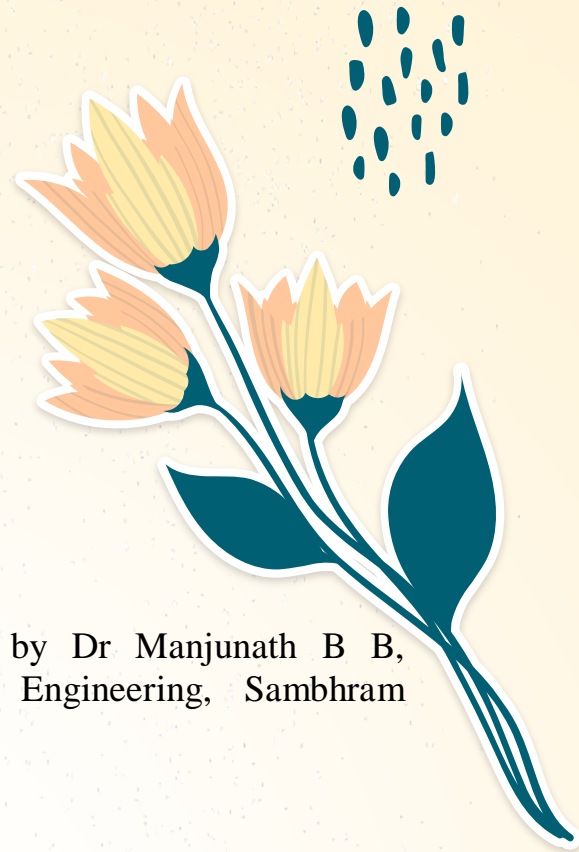
Technical Talk on " Energy Conservation Day " by Dr Manjunath B B, Professor and Head of Department, Mechanical Engineering, Sambhram Institute of Technology, Bangalore on 30.12.2024

DEPARTMENT OF MBA

FEBRUARY 2024 – JULY 2024

HOD's Message

Prof. C. R. Krishnaprasad

HOD - Department of MBA

Sambhram Institute of Technology MBA Department An introduction to the World of Corporate Welcome to the Best MBA College in Bangalore. Combining theoretical insight with practical experience, our program prepares students with the tools necessary for a competitive business environment.

Our curriculum imparts essential knowledge in fields like finance, marketing, HR, business analytics, and entrepreneurship, with prime focus on real-world learning via case studies, industry exposure, and live projects. Which you will begin to experience in this inspiring seminar, which our experienced faculty & vibrant learning environment encourages critical thinking, leadership & innovative.

We strive to create professionals who can adapt to changing market trends and excel in their careers. I encourage our students to embrace challenges, seize opportunities, and aim for excellence in all their endeavors.

Department of MBA

February 2024 - July 2024

The Department of MBA at Sambhram Institute of Technology (SaIT) offers a comprehensive management program affiliated with Visvesvaraya Technological University (VTU). Designed to equip students with essential business and leadership skills, the program provides specializations in Finance, Marketing, Human Resources, and Business Analytics. The curriculum integrates theoretical concepts with practical applications through case studies, industry projects, and interactive learning methods. With a strong emphasis on real-world exposure, students benefit from internships, guest lectures, and workshops that help them develop analytical and strategic thinking abilities.

Led by Prof. C R Krishna Prasad, the department has a team of experienced faculty members with academic and industry expertise. The well-equipped infrastructure, including smart classrooms, a modern library, and advanced computer labs, enhances the learning experience. The placement cell actively collaborates with reputed organizations, ensuring students receive ample internship and job opportunities. Additionally, career development programs focusing on soft skills, interview preparation, and corporate networking further strengthen students' readiness for the business world. With a blend of academic excellence, industry relevance, and career support, the MBA department at SaIT is a strong choice for aspiring management professionals.

Activities Organised by Department of MBA

1.Understanding the Interim Budget - 01/02/2024

The Department of MBA at Sambhram Institute of Technology, under the leadership of Prof. C R Krishna Prasad, organized an insightful activity on "Understanding the Interim Budget - 01/02/2024" to educate students on key budgetary policies and their economic implications. The session covered important aspects of the Union Interim Budget 2024, including fiscal allocations, taxation policies, and sector-wise financial planning. Experts and faculty members engaged students in discussions on how the budget impacts businesses, industries, and economic growth. The interactive format allowed students to analyze real-world budget scenarios and understand government strategies in economic planning. This event enriched students' financial and policy awareness, preparing them for informed decision-making in their careers.

2. World Day of Social Justice - 20/02/2024

The Department of MBA at Sambhram Institute of Technology organized an event on World Day of Social Justice on February 28, 2024 to raise awareness about social equity, human rights, and inclusive development. The event featured Mr. Sanjay N as the guest speaker, who shared insights on the importance of social justice in today's world, emphasizing equality, fair opportunities, and ethical leadership.

The session included discussions on global and local social justice issues, corporate social responsibility (CSR), and the role of businesses in promoting fairness and sustainability. Faculty members and students actively participated, engaging in interactive discussions and activities aimed at fostering awareness and responsibility. The event successfully highlighted the need for collective efforts in building a just and inclusive society.

Activities Organised by Department of MBA

3.Motivation speech - 06/03/2024

The Department of MBA at Sambhram Institute of Technology is organizing a Motivational Speech on March 6, 2024. The event aims to inspire and empower students by providing insights into personal and professional growth.

The session will feature B. S. Giri as the guest speaker, a renowned expert known for his motivational and leadership talks. This interactive session will focus on developing a positive mindset, overcoming challenges, and achieving success in both academic and career pursuits. Students will have the opportunity to engage with the speaker and gain valuable perspectives that will help them in their professional journey.

4.Introduction to IPR and Patents - 22/04/2024

The Department of MBA at Sambhram Institute of Technology organized an insightful session on "Introduction to IPR and Patents" on 22nd April 2024. The event aimed to educate students on the fundamentals of Intellectual Property Rights (IPR) and the importance of patents in innovation and business. The session covered key aspects such as types of intellectual property, patent filing processes, legal frameworks, and the significance of protecting inventions in today's competitive market.

The guest speaker for the session was Mrs. Jeevitha, an expert in IPR, who provided valuable insights into the practical applications of patents and intellectual property laws. She highlighted real-world examples, discussed case studies, and guided students on how businesses leverage IPR for competitive advantage. The session was interactive, with students engaging in discussions and queries, making it a highly informative and enriching experience.

Activities Organised by Department of MBA

5.Consumer Rights Day - 22/04/2024

On April 22, 2024, the Department of MBA at Sambhram Institute of Technology organized a special session to mark Consumer Rights Day. The event aimed to raise awareness about consumer rights, responsibilities, and the importance of ethical business practices. The session was held in the afternoon and featured Ms. Sujata B L as the guest speaker.

During the session, Mrs. Sujata B L provided valuable insights into consumer protection laws, fair trade practices, and how consumers can safeguard their rights. She highlighted real-life cases and discussed the role of businesses in ensuring transparency and ethical conduct. The session was highly informative and interactive, allowing students to engage in discussions and clarify their doubts. The event successfully enriched students' knowledge about consumer rights, empowering them to be more informed and responsible consumers in the future.

6. Experiential Learning in Mall of Asia - 12/07/2024

The Department of MBA at Sambhram Institute of Technology organized an Experiential Learning activity at the Mall of Asia on 12th July 2024. The visit provided students with hands-on exposure to marketing, branding, sales strategies, and retail management in a real-world setting.

Guided by faculty, students observed business operations, interacted with industry professionals, and analyzed different business models. This activity helped bridge the gap between classroom learning and practical application, enhancing their critical thinking and decision-making skills for future careers.

Activities Organised by Department of MBA

7. Guest talk on Acceleration and Incubation opportunities for Early Stage Entrepreneurs - 24/07/2024

The MBA Department of Sambhram Institute of Technology (SaIT) is thrilled to host an exclusive Guest Talk on "Acceleration and Incubation Opportunities for Early-Stage Entrepreneurs" on 24th July 2024.

This insightful session will be led by Dr. Bhavya Vikas, a distinguished expert in entrepreneurship, who will delve into crucial aspects of startup acceleration, funding strategies, mentorship, and industry collaborations. Attendees will gain in-depth knowledge about navigating the challenges of early-stage business growth, securing the right resources, and leveraging incubation opportunities to scale their ventures successfully.

This event presents a golden opportunity for students, aspiring entrepreneurs, and startup enthusiasts to engage in a powerful learning experience, connect with like-minded individuals, and expand their professional network. Don't miss out on this chance to gain expert insights, explore potential collaborations, and take your entrepreneurial journey to the next level!

Industrial Visit

1. Akshayapatra - 09/02/2024

The MBA Department at Sambhram Institute of Technology organized an industrial visit to Akshaya Patra on February 9, 2024, to provide students with insights into large-scale operations and supply chain management. Akshaya Patra, known for its mid-day meal program, serves millions of schoolchildren across India.

Students observed the state-of-the-art kitchen facilities, quality control measures, and food distribution strategies. They also interacted with representatives to learn about inventory management, cost optimization, and social entrepreneurship. The visit offered practical exposure to efficient operations and sustainable business models.

2. BHEL - 06/05/2024

On May 6, 2024, the MBA Department of Sambhram Institute of Technology (SaIT) organized an industrial visit to Bharat Heavy Electricals Limited (BHEL). The visit aimed to provide students with practical insights into manufacturing processes and operations management.

Students observed production techniques, quality control systems, and supply chain operations, gaining hands-on exposure to industry practices. The session concluded with an interactive discussion where experts shared insights on industry trends and career opportunities.

Industrial Visit

3. TVS - 22/05/2024

The MBA Department of Sambhram Institute of Technology organized an industrial visit to TVS on 22nd May 2024, giving students firsthand exposure to automobile manufacturing and management. They observed production, assembly, quality control, and automation, guided by industry experts. Interactive sessions provided insights into supply chain management, industry trends, and career opportunities. The visit enriched students' understanding by bridging classroom learning with real-world industry practices.

4. KMF - 22/07/2024

The MBA department of Sambhram Institute of Technology organized an industrial visit to MF on 22nd July 2024, offering students valuable industry exposure. They explored manufacturing, operations, and quality management through a guided tour and interactive session. The visit enhanced their understanding of theoretical concepts in a real-world setting, providing an informative and enriching experience.

2. Excel and SPSS - 15/06/2024 - 16/06/2024 & 22/06/2024 - 23/06/2024

The Department of MBA at Sambhram Institute of Technology (SaIT) is organizing a workshop on Excel and SPSS, conducted by Senthil Kumar, to enhance students' data analysis skills. Scheduled across two weekends on 15th–16th June 2024 and 22nd–23rd June 2024, the workshop will provide hands-on training in Microsoft Excel and SPSS (Statistical Package for the Social Sciences), both essential tools for business analytics and research. Participants will learn key Excel functions, pivot tables, charts, and financial modeling, along with statistical analysis techniques in SPSS, including data entry, hypothesis testing, regression analysis, and data visualization. Through practical exercises and real-world case studies, this workshop will help students, researchers, and professionals improve their analytical abilities and decision-making skills.

Workshop

2. ARIMA Model - 19/07/2024

The Department of MBA at Sambhram Institute of Technology (SaIT) is organizing a workshop on the ARIMA Model on 19th July 2024. This workshop will provide insights into time series forecasting using the ARIMA (AutoRegressive Integrated Moving Average) model, a powerful statistical technique widely used in business analytics and financial forecasting.

The session will be conducted by Dr. Bhavya Vikas and Dr. Charithra, experienced experts in data analytics and statistical modeling. Attendees will gain hands-on experience in implementing ARIMA using real-world datasets, enhancing their understanding of forecasting techniques. This workshop is an excellent opportunity for students and professionals to develop practical skills in predictive analytics, which are highly valuable in today's data-driven business environment.

Extra - Curricular Activities

Sports Day - 29/02/2024

The Department of MBA at Sambhram Institute of Technology, led by Prof. C R Krishna Prasad, organized Sports Day on February 29, 2024, promoting fitness, teamwork, and sportsmanship. Students actively participated in events like cricket, badminton, volleyball, chess, and athletics, competing with enthusiasm. The winners were awarded medals and certificates in a closing ceremony attended by faculty. Prof. C R Krishna Prasad emphasized the importance of sports in personality development. The event was a success, highlighting the department's commitment to holistic education.

Faculty Development Programme Attended by Faculties

Prof. Vanishree G M attended FDP by National School of Business - 26/02/2024 - 28/02/2024

Prof. Vanishree G M attended FDP by R V Institute of Management - 10/06/2024 - 16/06/2024